Form 3160-3 (June 2015) JUL 0.1 2019

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

## UNITED STATES DEPARTMENT OF THE INTERIOR

## DISTRICTI-ARTESIAO.C.D

5. Lease Serial No.

APPLICATION FOR PERMITTO DRILL OR REENTER  1a. Type of work: DRILL Other  1b. Type of Welt Oil Well J Gas Well Other  1c. Type of Completion: Hydraulic Fracturing J Single Zone Multiple Zone  2. Name of Operator  MEWBOURNE OIL COMPANY  3a. Address  3b. Phone No. (include area code)  4c. Location of Well (Report location clearly and in accordance with any State requirements.*)  At surface SWNE / 1370 FRM. / 2435 FEL / LAT 32 2257079 / LONG - 104 1607629  At proposed prod zone SENE / 2200 FNL / 330 FEL / LAT 32 235587 / LONG - 104 1365723  1c. Distance in miles and direction from nearest town or post office*  15. Distance in miles and direction from nearest town or post office*  15. Distance from proposed for some sense inc., fit.  Also to nearest drig. until inc, if any)  18. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  19. Distance from proposed drig. until inc, if any)  20. BLM/BIA Bond No. in file to nearest with dright dedicated to this well location to a decide dright	BUREAU OF LAND MANA	AGEMENT	NMNM018613A
Date	APPLICATION FOR PERMIT TO D	RILL OR REENTER	6. If Indian, Allotee or Tribe Name
Date			
tc. Type of Completion:   Hydraulic Fracturing   V Single Zone   Multiple Zone   WESTLOVING 11/12 W0GH FED COM 3H 3H 35 5 PA    2. Name of Operator   MEWBOURNE OIL COMPANY   32.5 5 PA    2. Name of Operator   SyAPI, Well NG   S	la. Type of work:	EENTER	7. If Unit or CA Agreement, Name and No.
1c. Type of Completion:	1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ O	ther	
2. Name of Operator MEWBOURNE OIL COMPANY 3. Address PO Box 5270 Hobbs NM 88240 3. Address PO Box 5270 Hobbs NM 88240 4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface SWNE / 1370 FNL / 2435 FEL / LAT 32.2357079 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.235587 / LONG -104.1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / 230 FNL / 330 FNL / 330 FEL / 330 FNL / 330	1c. Type of Completion: Hydraulic Fracturing	ingle Zone Multiple Zone	
2. Name of Operator  MEWBOURNE OIL COMPANY  3a. Address PO Box 5270 Hobbs NM 88240  (575)393-5905  At surface SWNE / 1370 FNL / 2435 FEL / LAT 32.2357079 / LONG - 104, 1607629 At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.2335587 / LONG - 104, 1365723  14. Distance in miles and direction from nearest town or post office*  15. Distance from proposed* location to nearest miles, mil tile, if any) (Also to nearest drig, mil tile, if an		,	
MEWBOURNE OIL COMPANY  3a. Address  7b. Phone No. (include area code)  7co Bass 2270 Hobbs NM 88240  4. Location of Well (Report location clearly and in accordance with any State requirements.*)  At surface SWNE / 1370 FNL / 2435 FEL / LAT 32.2357079 / LONG - 104.1607629  At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.2357079 / LONG - 104.1305723  14. Distance in miles and direction from nearest town or post office*  7miles  15. Distance from proposed* 16. No of acres in loase 16. No of acres in loase 17. Specing Unit dedicated to this well 18. Distance from proposed to cation to nearest 19 proposed Depth 19 proposed Depth 10 no of acres in loase 10 proposed Depth 10 proposed			32582
3a. Address   3b. Phone No. (include area code)   170-Field and Pool, of Exploratory   175-Field and Pool, of Exploratory   175-Signa's 5905   175	•		
4. Location of Well (Report location clearly and in accordance with any State requirements.*)  At surface SWNE / 1370 FNL / 2435 FEL / LAT 32.2357079 / LONG -104.1607629  At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.2335587 / LONG -104.1365723  14. Distance in miles and direction from nearest town or post office*  15. Distance from proposed* 16. No of acres in lease- 17. Spacing. Unit dedicated to this well 18. Distance from proposed location* 19. Proposed Depth   20/BLM/BIA Bond No. in file 19. Proposed Dept		1	10 Field and Pool, of Exploratory
At surface SWNE / 1370 FNL / 2435 FEL / LAT 32.2357079 / LONG -104.1607629  At proposed prod. zone SENE / 2200 FNL / 330 FEL / LAT 32.2335587 / LONG -104.1365723  14. Distance in miles and direction from nearest town or post office*  15. Distance from proposed*	<del></del>	<u></u>	N March N N
At proposed prod zone SENE / 2200 FNL / 330 FEL / LAT 32.2335587 / LONG -104.1365723  14. Distance in miles and direction from nearest town or post office*  15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest drig. until line, if any)  18. Distance from proposed location* 19. Proposed Depth. 20. BLM/BIA Bond No. in file 19. Proposed Depth. 20. BLM/BIA Bond No. in file 19. Proposed Depth. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments 24. Attachments 25. Signature 26. Such other site specific information and/or plans as may be requested by the BLM. 26. Such other site specific information and/or plans as may be requested by the BLM. 27. Printed/Typed) 28. Signature 29. Cody Layton / Ph. (575)393-5905 29. Date 29. Cody Layton / Ph. (575)234-5959 29. Date 29. Cody Layton / Ph. (575)234-5959 20. Date 29. Cody Layton / Ph. (575)234-5959 20. Office 20. Cody Layton / Ph. (575)234-5959 20. Office 20. Cody Layton / Ph. (575)234-5959 20. Date 20. Cody Layton / Ph. (575)234-5959 20. Date 20. Cody Layton / Ph. (575)234-5959 20. Date 20. Cody Layton / Ph. (575)234-5959 20. Cody Lay			
14. Distance in miles and direction from nearest town or post office*   12. Country or Parish   13. State   7 miles   15. Distance from proposed*   16. No of acres in lease   17. Spacing, Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)   18. Distance from proposed location*   19. Proposed Depth   20/BLM/BIA Bond No. in file   19. Proposed D			SEC TIME 243/ RZ/E/ NWIP
15. Distance from proposed* location to nearest property or lease line, fit (Also to nearest drig, unit line, if any)  18. Distance from proposed location* to nearest well, drilling, completed, 60 feet applied for, on this lease, fit.  21. Elevations (Show whether DF, KDB, RT, GL, etc.)  22. Approximate date work will start*  23. Estimated duration foldays  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.  2. A Drilling Plan.  3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filled with the appropriate Forest Service Office)  Name (Primed/Typed)  Bradley Bishop / Ph: (575)393-5905  Date (Electronic Submission)  Name (Primed/Typed)  Cody Layton / Ph: (575)234-5959  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 orday and willfully to make to any department or agency  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  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	At proposed prod. zone SENE / 2200 FNL / 330 FEL / L/	AT 32.2335587 / LONG -104.1365723	
location to nearest property or lease line, ft. (Also to nearest drig, until line, if any)  18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  21. Elevations (Show whether DF, KDB, RT, GL, etc.)  22. Approximate date work will start*  23. Estimated duration 60 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. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office)  1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office)  1. Wall plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office)  4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.  Name (Printed/Typed) Cody Laylon / Ph: (575)393-5905  Date (Electronic Submission)  Date (Clectronic Submission)  Name (Printed/Typed) Cody Laylon / Ph: (575)234-5959  Date (CarlusBaD)  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-fram, 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			
property or lease line, ft. (Also to nearest drig. unit line, if any)  18. Distance from proposed location* to nearest well, drilling, completed, 60 feet applied for, on this lease, ft.  21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3123 feet  22. Approximate date work will start* 23. Estimated duration 60 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. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office)  4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.  25. Signature (Electronic Submission)  Title Regulatory  Approved by (Signature) (Electronic Submission)  Name (Printed/Typed) Date Cody Layton / Ph: (575)393-5905  Date CARLSBAD  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-jrámy, 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		16. No of acres in lease	cing.Unit dedicated to this well
to nearest well, drilling, completed, applied for, on this lease, ft.  21. Elevations (Show whether DF, KDB, RT, GL, etc.)  22. Approximate date work will start*  23. Estimated duration 60 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.  2. A Drilling Plan.  3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office)  5. Operator certification.  6. Such other site specific information and/or plans as may be requested by the BLM.  25. Signature (Electronic Submission)  7. Name (PrintedTyped) Pardley Bishop / Ph. (575)393-5905  Date O8/01/2018  Title Regulatory  Approved by (Signature) Cody Layton / Ph. (575)234-5959  O6/26/2019  Title 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-ji-fany, 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	property or lease line, ft.	760.24 ( 480	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)  22. Approximate date work will start*  23. Estimated duration 60 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)  4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).  5. Operator certification.  6. Such other site specific information and/or plans as may be requested by the BLM.  25. Signature  Celectronic Submission)  Name (Primed/Typed)  Regulatory  Approved by (Signature)  Celectronic Submission)  Name (Primed/Typed)  Cody Layton / Ph. (575)234-5959  Office  CARLSBAD  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 <sub>7</sub> -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.	18. Distance from proposed location*	19. Proposed Depth 20./BLI	M/BIA Bond No. in file
3123 feet  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  2. A Drilling Plan.  3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office)  5. Operator certification.  6. Such other site specific information and/or plans as may be requested by the BLM.  Name (Printed/Typed)  Fritle  Regulatory  Approved by (Signature) (Electronic Submission)  Name (Printed/Typed) Cody Layton / Ph: (575)393-5905  Date Cody Layton / Ph: (575)234-5959  Date Office CARLSBAD  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.	apprearor, on any rease, it.		IM1693
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.  2. A Drilling Plan.  3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filled with the appropriate Forest Service Office)  5. Operator certification.  6. Such other site specific information and/or plans as may be requested by the BLM.  25. Signature (Electronic Submission)  Name (Primed/Typed) Bradley Bishop / Ph: (575)393-5905  Date (Electronic Submission)  Name (Primed/Typed) Cody Layton / Ph: (575)234-5959  Office Assistant Field Manager Lands & Minerals  CARLSBAD  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			
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.  2. A Drilling Plan.  3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filled with the appropriate Forest Service Office)  4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).  5. Operator certification.  6. Operator certification.  6. Sub other site specific information and/or plans as may be requested by the BLM.  7. Standard (Electronic Submission)  7. Submission)  8. Mame (Primed/Typed)  9. Cody Layton / Ph: (575)393-5905  8. Minerals  7. 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.  7. Conditions of approval-if any, are attached.  7. 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	3123 leet		60 days
1. Well plat certified by a registered surveyor.  2. A Drilling Plan.  3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).  5. Operator certification.  6. Such other site specific information and/or plans as may be requested by the BLM.  25. Signature (Electronic Submission)  Title Regulatory  Approved by (Signature)  (Electronic Submission)  Name (Printed/Typed)  Cody Layton / Ph: (575)393-5905  Date  Cody Layton / Ph: (575)234-5959  Office  Assistant Field Manager Lands & Minerals  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			
Item 20 above).  3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).  5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.  7. Name (Printed/Typed)  8. Bradley Bishop / Ph: (575)393-5905  8. Date (Bectronic Submission)  8. Name (Printed/Typed)  9. Date (Bectronic Submission)  8. Name (Printed/Typed)  9. Cody Layton / Ph: (575)234-5959  9. Operator certification. 9. Such other site specific information and/or plans as may be requested by the BLM.  9. Date (Bectronic Submission)  1. Date (Cody Layton / Ph: (575)234-5959)  2. Date (Cody Layton / Ph: (575)234-5959)  3. A Surface Use Plan (if the location is on National Forest System Lands, the BLM.  5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.  8. Date (Printed/Typed)  9. Cody Layton / Ph: (575)234-5959  1. Date (Cody Layton / Ph: (575)234-5959)  2. Date (Cody Layton / Ph: (575)234-5959)  3. Date (Cody Layton / Ph: (575)234-5959)  4. Date (Cody Layton / Ph: (575)234-5959)  4. Date (Cody Layton / Ph: (575)234-5959)  5. Operator certification.  5. Date (Cody Layton / Ph: (575)393-5905)  6. Date (Cody Layton / Ph: (575)234-5959)  6. Date (Cody Layton / Ph: (575)234-5959)  6. Date	The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil and Gas Order No. 1, and the	Hydraulic Fracturing rule per 43 CFR 3162.3-3
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).  5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.  25. Signature (Electronic Submission)  Title Regulatory  Approved by (Signature) (Electronic/Submission)  Name (Printed/Typed) Bradley Bishop / Ph: (575)393-5905  Name (Printed/Typed) Cody Layton / Ph: (575)234-5959  Office Assistant/Field Manager Lands & Minerals  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	1. Well plat certified by a registered surveyor.		ons unless covered by an existing bond on file (see
SUPO must be filed with the appropriate Forest Service Office)  6. Such other site specific information and/or plans as may be requested by the BLM.  25. Signature (Electronic Submission)  Title Regulatory  Approved by (Signature) (Electronic Submission)  Name (Printed/Typed) Bradley Bishop / Ph: (575)393-5905  Date (Cody Layton / Ph: (575)234-5959  Office Assistant Field Manager Lands & Minerals  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	<i>k.</i> /	· · · · · · · · · · · · · · · · · · ·	
BLM			ormation and/or plans as may be requested by the
(Electronic Submission)  Bradley Bishop / Ph: (575)393-5905  08/01/2018  Title Regulatory  Approved by (Signature) (Electronic Submission)  Title / Cody Layton / Ph: (575)234-5959  Office Assistant Field Manager Lands & Minerals  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		BLM.	
Approved by (Signature) (Electronic Submission)  Title Assistant Field Manager Lands & Minerals  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			
(Electronic Submission)  Cody Layton / Ph: (575)234-5959  Office Assistant Field Manager Lands & Minerals  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	Regulatory		
Assistant Field Manager Lands & Minerals  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			
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	Assistant Field Manager Lands & Minerals	CARLSBAD	
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.	applicant to conduct operations thereon.	nt holds legal or equitable-title to those righ	ts in the subject lease which would entitle the
	Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements	nake it a crime for any person knowingly ar or representations as to any matter within it	nd willfully to make to any department or agency s jurisdiction.
			1

(Continued on page 2)

APPROVED WITH CONDITIONS

APProval Date: 06/26/2019

\*(Instructions on page 2)

RW 7-2-19

#### INSTRUCTIONS

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

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

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

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

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

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

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

### NOTICES

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

AUTHORITY: 30 U.S.C. 181 et seq., 25 U(\$; C. 396; 43 CER 3160

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

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

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

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

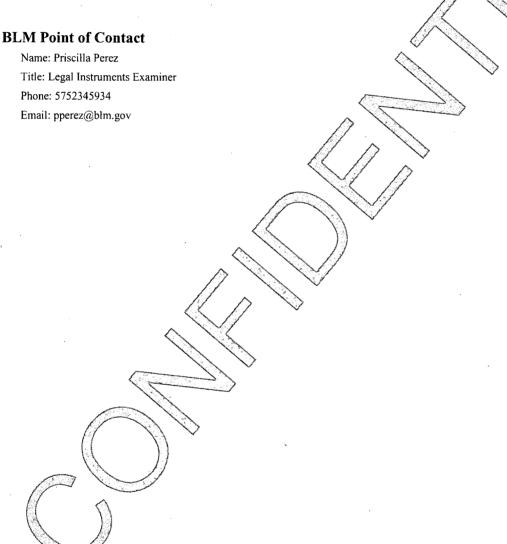
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if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

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

### **Additional Operator Remarks**

#### **Location of Well**

1. SHL: SWNE / 1370 FNL / 2435 FEL / TWSP: 248 / RANGE: 27E / SECTION: 11 / LAT: 32.2357079 / LONG: -104.1607629 ( TVD: 27-feet, MD: 27-feet ) PPP: SWNE / 2200 FNL / 2309 FEL / TWSP: 24S / RANGE: 27E / SECTION: 11 / LAT: 32.2334275 / LONG: -104.1603597 ( TVD: 9148-feet, MD: 9347-feet ) PPP: SENE / 2200 FNL / 1319 FEL / TWSP: 24S / RANGE: 27E / SECTION: 11 / LAT: 32.2334454 / LONG: -104.1571546 ( TVD: 9196-feet, MD: 10341-feet ) PPP: SWNW / 2200 FNL / 0 FWL / TWSP: 24S / RANGE: 27E / SECTION: 12 / LAT: 32.2334692 / LONG: -104.1528888 ( TVD: 9229-feet, MD: 11661-feet ) BHL: SENE / 2200 FNL / 330 FEL / TWSP: 24S / RANGE: 27E / SECTION: 12 / LAT: 32.2335587 / LONG: -104.1365723 ( TVD: 9356-feet, MD: 16708-feet )

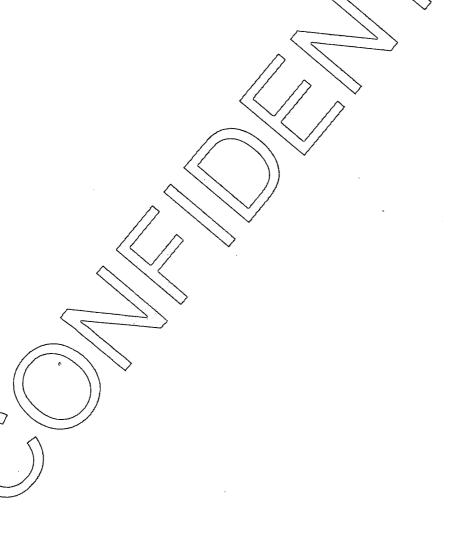


(Form 3160-3, page 3)

Approval Date: 06/26/2019

## **Review and Appeal Rights**

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



# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** | MEWBOURNE OIL COMPANY

LEASE NO.: | NMNM18613A

WELL NAME & NO.: 3H- WESTLOVING 11/12 WOGH FED COM

**SURFACE HOLE FOOTAGE:** | 1370'/N & 2435'/E **BOTTOM HOLE FOOTAGE** | 2200'/N & 330'/E

LOCATION: Section. 11.,T24S.,R.27E., NMP COUNTY: EDDY County, New Mexico

COA

H2S	C Yes	€ No	
Potash	• None	C Secretary	C R-111-P
Cave/Karst Potential	CLow	• Medium	C High
Variance	C None	Flex Hose	C Other
Wellhead	Conventional	Multibowl	<b>€</b> Both
Other		Capitan Reef	☐ WIPP
Other	Fluid Filled	T. Cement Squeeze	☐ Pilot Hole
Special Requirements	Water Disposal	<b>I</b> ✓ COM	Unit 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 13-3/8 inch surface casing shall be set at approximately 375 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to

Page 1 of 9

**Approval Date: 06/26/2019** 

- 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.

Ŷ,

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing shall be set at approximately 2200 feet is:

#### **Option 1 (Single Stage):**

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

#### **Option 2:**

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
    - Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 7 inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the 4-1/2 inch production liner is:
  - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Page 2 of 9

**Approval Date: 06/26/2019** 

#### 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.

#### **Option 1:**

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 3000 (3M) psi.
- c. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the production casing shoe shall be 5000 (5M) psi.

#### Option 2:

- 1. 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 **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.

#### D. SPECIAL REQUIREMENT (S)

#### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Page 4 of 9

**Approval Date: 06/26/2019** 

## **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)
  - \Mathrel{\text{Chaves}} \text{ Chaves and Roosevelt Counties}

     Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.

     During office hours call (575) 627-0272.

     After office hours call (575)
  - 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) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per 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.

1

#### 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.
- 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.
- 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.

Page 6 of 9

**Approval Date: 06/26/2019** 

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: 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

Page 7 of 9

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 when specified), 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. 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.

Page 9 of 9

Approval Date: 06/26/2019

## PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

MEWBOURNE OIL COMPANY OPERATOR'S NAME:

LEASE NO.: | NMNM18613A

3H- WESTLOVING 11/12 W0GH FED COM WELL NAME & NO.:

SURFACE HOLE FOOTAGE: 1370'/N & 2435'/E BOTTOM HOLE FOOTAGE | 2200'/N & 330'/E

> Section. 11., T24S., R.27E., NMP LOCATION: COUNTY:

**EDDY County, New Mexico** 

#### TABLE OF CONTENTS

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

### Special Requirements

**Texas Hornshell Conservation Measures** 

## I. SPECIAL REQUIREMENT(S)

#### **Texas Hornshell Conservation Measures**

- Implement erosion control measures in accordance with the Reasonable and Prudent Practices for Stabilization ("RAPPS")
- Comply with SPCC requirements in accordance with 40 CFR Part 112
- Educate Personnel, agents, and contractors about the requirements of the CP and this CCA and provide direction in accordance with the Conservation Measures. CEHMM will notify the Participant to resolve any issues with their subcontractors
- Provide CEHMM with the permit, lease, grant or other authorization from the BLM if applicable
- Provide CEHMM plats or other electronic media describing the New Surface Disturbance and existing surface disturbance utilized for the Project

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

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed drainages or floodplains and must span across the features at a distance away that would not promote further erosion.

Page 2 of 2



NAME: Bradley Bishop

**Email address:** 

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

## ြာများator Certification Data Report 06/27/2019

Signed on: 08/01/2018

#### **Operator Certification**

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Title: Regulatory		•
Street Address: PO B	Sox 5270	
City: Hobbs	State: NM	<b>Zip</b> : 88240
Phone: (575)393-5905	5	
Email address: bbisho	op@mewbourne.com	
Field Repre	sentative	
Representative Nai	me:	
Street Address:		
City:	State:	Zip:
Phone:	·	



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

## Application Data Report

06/27/2019

APD ID: 10400032515

Submission Date: 08/01/2018

Highlighted data reflects the most

recent changes

**Operator Name: MEWBOURNE OIL COMPANY** Well Name: WESTLOVING 11/12 W0GH FED COM

Well Number: 3H

**Show Final Text** 

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - General

APD ID:

10400032515

Tie to previous NOS?

Submission Date: 08/01/2018

**BLM Office: CARLSBAD** 

User: Bradley Bishop

Title: Regulatory

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM018613A

Lease Acres: 760.24

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

**Permitting Agent? NO** 

APD Operator: MEWBOURNE OIL COMPANY

Operator letter of designation:

Westloving11\_12W0GHFedCom3H operatorletterofdesignation 20180727091901.pdf

#### **Operator Info**

Operator Organization Name: MEWBOURNE OIL COMPANY

Operator Address: PO Box 5270

**Zip:** 88240

**Operator PO Box:** 

**Operator City: Hobbs** 

State: NM

Operator Phone: (575)393-5905

**Operator Internet Address:** 

#### **Section 2 - Well Information**

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: WESTLOVING 11/12 W0GH FED COM

Well Number: 3H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PURPLE-SAGE

Pool Name: WOLFCAMP

**WOLFCAMP GAS** 

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Well Name: WESTLOVING 11/12 W0GH FED COM We

Well Number: 3H

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: WEST Number: 3

Well Class: HORIZONTAL

LOVING 11/12

Number of Legs:

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

**Describe Well Type:** 

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town: 7 Miles Distance to nearest well: 60 FT Distance to le

Distance to lease line: 330 FT

Reservoir well spacing assigned acres Measurement: 480 Acres

Well plat: Westloving11\_12W0GHFedCom3H\_\_wellplat\_20180727091947.pdf

Well work start Date: 10/27/2018 Duration: 60 DAYS

#### **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

**Describe Survey Type:** 

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	137 0	FNL	243 5	FEL	248	27E	11	Aliquot SWNE	32.23570 79	- 104.1607 629	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	312 3	27	27
KOP Leg #1	220 0	FNL	262 9	FWL	24\$	27E	23	Aliquot SESW	32.23342 17	- 104.1613 914	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	- 557 5	875 8	869 8
PPP Leg #1	220 0	FNL	230 9	FEL	24S	27E	11	Aliquot SWNE	32.23342 75	- 104.1603 597	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	- 602 5	l	914 8

Well Name: WESTLOVING 11/12 W0GH FED COM

Well Number: 3H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
PPP	220	FNL	131	FEL	248	27E	11	Aliquot	32.23344	-	EDD	NEW	NEW	F	NMNM	-	103	919
Leg	0		9	ļ				SENE	54		Υ		MEXI		018613	607	41	6
#1	_						_			546		СО	СО		Α	3		
PPP	220	FNL	0	FWL	24S	27E	12	Aliquot	32.23346	-	EDD	NEW	NEW	s	STATE	-	116	922
Leg	0							SWN	92	104.1528	Υ	MEXI	MEXI			610	61	9
#1								W		888		СО	СО			6		,
EXIT	220	FNL	330	FEL	24S	27E	12	Aliquot	32.23355	-	EDD	NEW	NEW	s	STATE	-	167	935
Leg	0							SENE	87	104.1365	Υ	MEXI	MEXI			623	08	6
#1										723		СО	CO			3		
BHL	220	FNL	330	FEL	248	27E	12	Aliquot	32.23355	-	EDD	NEW	NEW	S	STATE	-	167	935
Leg	0							SENE	87	104 1365	Ϋ́	MEXI	MEXI			623	08	6
#1										723		co	co			3		

## United States Department of the Interior Bureau of Land Management Carlsbad Field Office 620 E Greene Street Carlsbad, New Mexico 88201-1287

#### Statement Accepting Responsibility for Operations

Mewbourne Oil Company

Street or Box:

P.O. Box 5270

City, State:

Hobbs, New Mexico

Zip Code:

88241

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted of the leased land or portion thereof, as described below.

Lease Number:

FEE, NMNM 018613A, FEE

Legal Description of Land:

Section 11, T24S, R27E, Eddy County, New Mexico.

Location @ 1370 FNL & 2435 FEL

Formation (if applicable):

Wolfcamp

Bond Coverage:

\$150,000

BLM Bond File:

NM1693 nationwide, NMB000919

Authorized Signature:

Name: Bradley Bishop

Title: Regulatory Manager

Snadly C &

Date: <u>7-25-18</u>

Well Name: WESTLOVING 11/12 W0GH FED COM

Well Number: 3H

Pressure Rating (PSI): 5M

Rating Depth: 16708

Equipment: Annular, Pipe Ram, Blind Ram

#### Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. A multi-bowl wellhead is being used. See attached schematic

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

#### **Choke Diagram Attachment:**

West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_5M\_BOPE\_Choke\_Diagram\_20180731111336.pdf
West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_Flex\_Line\_Specs\_20180731111338.pdf

#### **BOP Diagram Attachment:**

West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_5M\_BOPE\_Schematic\_20180731111348.pdf
West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_Multi\_Bowl\_WH\_20180731111349.pdf

#### Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	375	0	375	3150		375	H-40	48	STC	4.49	10.0 8	DRY	17.8 9	DRY	30.0 6
2	1	12.2 5	9.625	NEW	API	Ν .	0	2200	0	2200	3150		2200	J-55	36	LTC	1.71	2.98	DRY	5.53	DRY	6.89
	PRODUCTI ON	8.75	7.0	NEW	API	N	0	9497	0	9175	3150			P- 110	26	LTC	1.63	2.19	DRY	2.6	DRY	3.36
4	LINER	6.12 5	4.5	NEW	API	Ν	8758	16708	8758	9356			7950	P- 110	13.5	LTC	1.69	1.96	DRY	3.15	DRY	3.93

#### **Casing Attachments**

**Casing Attachments** String Type:SURFACE Casing ID: 1 Inspection Document: Spec Document: Tapered String Spec: Casing Design Assumptions and Worksheet(s):  $West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_Csg\_Assumptions\_20180731113004.pdf$ Casing ID: 2 String Type: INTERMEDIATE Inspection Document: Spec Document: Tapered String Spec: Casing Design Assumptions and Worksheet(s):  $West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_Csg\_Assumptions\_20180731113011.pdf$ String Type:PRODUCTION Casing ID: 3 Inspection Document: Spec Document: Tapered String Spec: Casing Design Assumptions and Worksheet(s): West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_Csg\_Assumptions\_20180731113018.pdf

Well Number: 3H

Operator Name: MEWBOURNE OIL COMPANY
Well Name: WESTLOVING 11/12 WOGH FED COM

Well Name: WESTLOVING 11/12 W0GH FED COM

Well Number: 3H

#### **Casing Attachments**

Casing ID: 4

String Type:LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_Csg\_Assumptions\_20180731113025.pdf$ 

Section	4 - C	emen	ıt				``				
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	186	125	2.12	12.5	265	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		186	375	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	1555	305	2.12	12.5	646	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		1555	2200	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	3285	2000	2626	60	2.12	12.5	127	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		2626	3285	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	3285	3285	6972	325	2.12	12.5	689	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		6972	9497	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		8758	1670 8	320	2.97	11.2	950	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Well Name: WESTLOVING 11/12 W0GH FED COM

Well Number: 3H

#### Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: Lost circulation material Sweeps Mud scavengers in surface hole

Describe the mud monitoring system utilized: Pason/PVT/Visual Monitoring

#### **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (İbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	표	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	375	SPUD MUD	8.6	8.8							
375	2200	SALT SATURATED	10	10							
2200	9175	WATER-BASED MUD	8.6	9.5							
9175	9356	OIL-BASED MUD	10	12							MW up to 13.0 ppg may be required for shale control. The highest MW needed to balance formation pressure is expected to be 12.0 ppg.

Well Name: WESTLOVING 11/12 W0GH FED COM

Well Number: 3H

#### Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (8758') to surface

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

CNL,DS,GR,MWD,MUDLOG

Coring operation description for the well:

None

#### Section 7 - Pressure

**Anticipated Bottom Hole Pressure: 5839** 

Anticipated Surface Pressure: 3462.34

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_H2S\_Plan\_20180731115737.pdf

#### **Section 8 - Other Information**

Proposed horizontal/directional/multi-lateral plan submission:

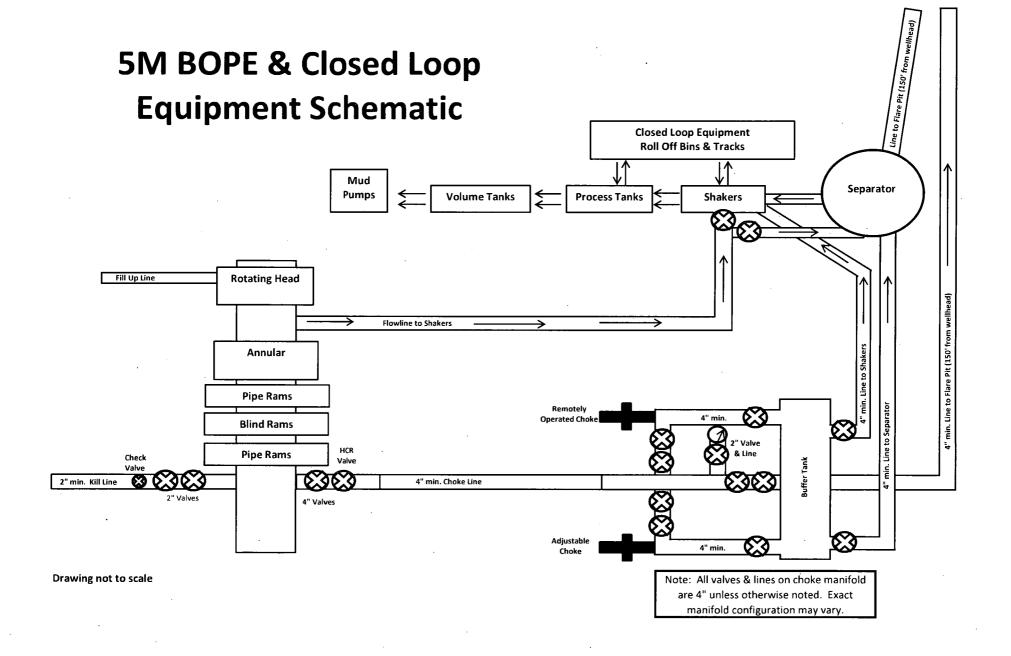
West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_Dir\_Plot\_20180731115817.pdf West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_Dir\_Plan\_20180731115818.pdf

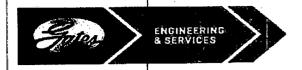
Other proposed operations facets description:

Other proposed operations facets attachment:

West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_Drlg\_Program\_20180731115839.doc West\_Loving\_11\_12\_W0GH\_Fed\_Com\_3H\_C\_101\_20180731120047.pdf

Other Variance attachment:





GATES E & S NORTH AMERICA, INC. 134 44TH STREET CORPUS CHRISTI, TEXAS 78405 PHONE: 361-887-9807 FAX: 361-887-0812

EMAIL: Tim.Cantu@gates.com

WEB: www.gates.com

### 10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER
Product Description:		10K3.548.0CK4.1/1610KFLGE/E	Œ
Product Description:		10K3.548.0CK4.1/1610KFLGE/E	LE
	4 1/16 10K FLG	10K3.548.0CK4.1/1610KFLGE/E  End Fitting 2 :	LE 4 1/16 10K FLG
Product Description:  End Fitting 1:  Gates Part No.:	4 1/16 10K FLG 4773-6290	-	

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager:

Date:

Signature:

QUALITY

4/30/2015

Produciton:

Date :

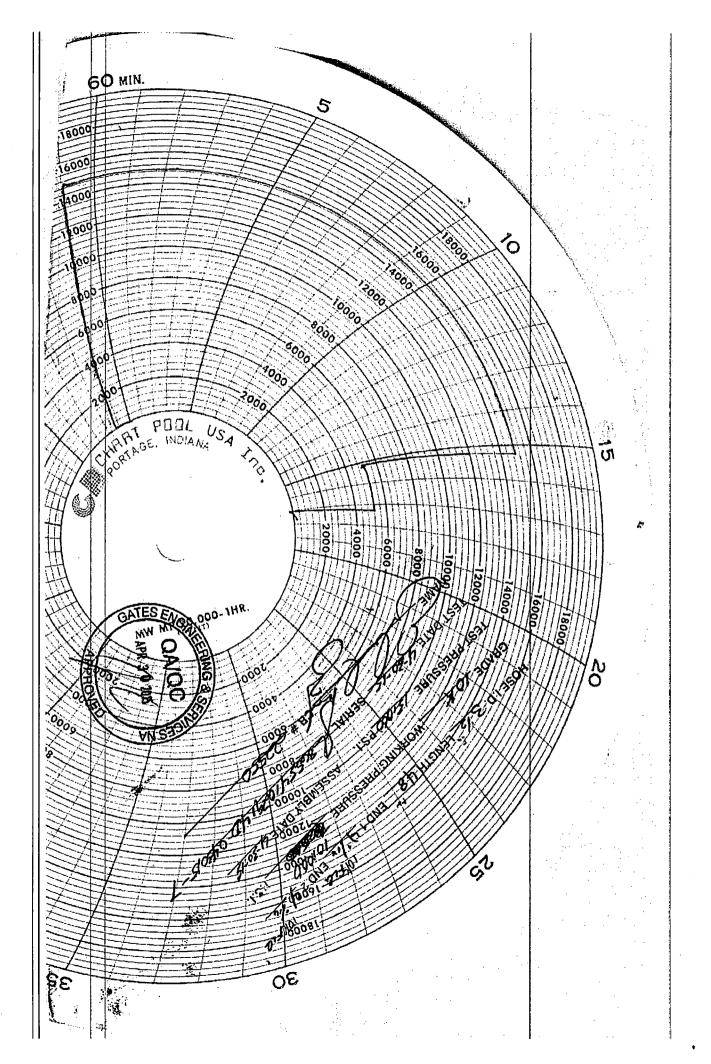
Signature :

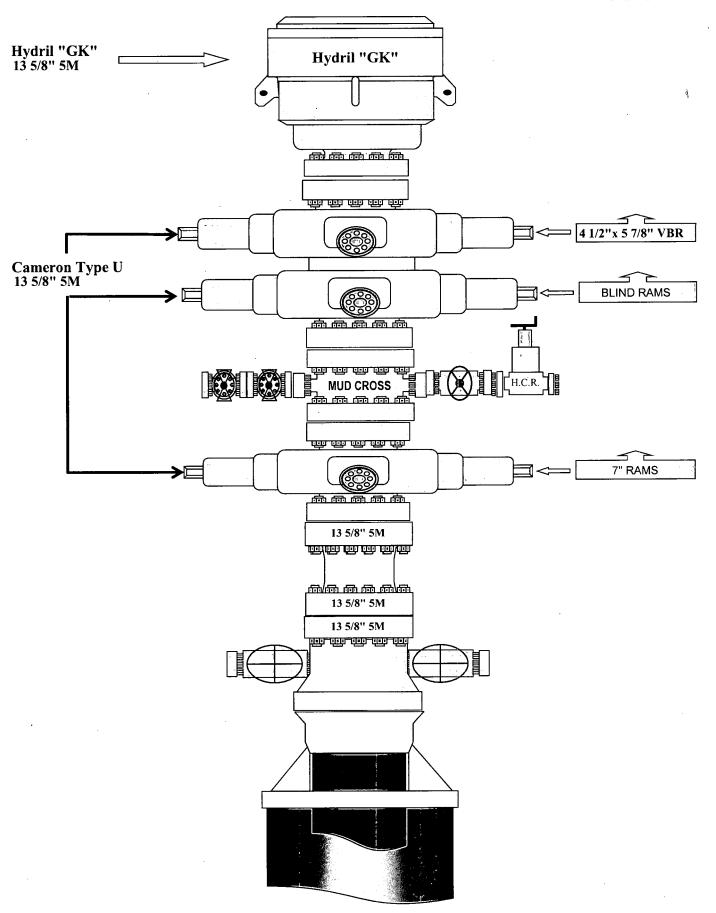
PRODUCTION

4/30/201

Form-P1C - 01 Rev.0 2

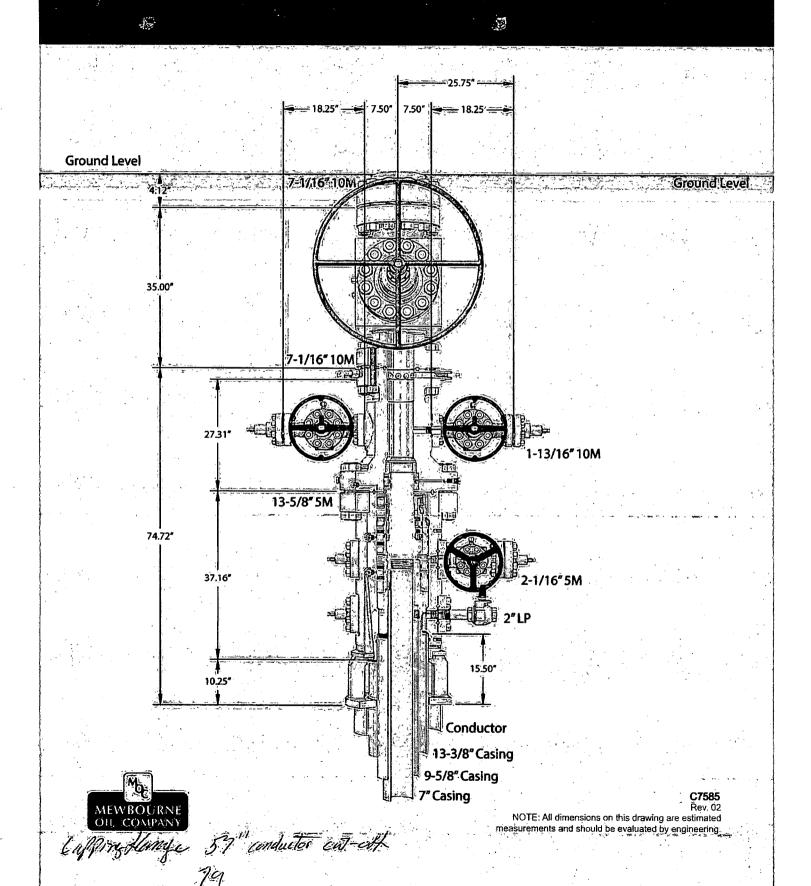








## 13-5/8" MN-DS Wellhead System



## Mewbourne Oil Company, West Loving 11/12 W0GH Fed Com #3H Sec 11, T24S, R27E

SL: 1370' FNL & 2435' FEL, Sec 11 BHL: 2200' FNL & 330' FEL, Sec 12

## **Casing Program**

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From		Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	375'	13.375"	48	H40	STC	4.49	10.08	17.89	30.06
12.25"	0'	2200'	9.625"	36	J55	LTC	1.71	2.98	5.53	6.89
8.75"	0'	9497'	7"	26	HCP110	LTC	1.63	2.19	2.60	3.36
6.125"	8758'	16,708'	4.5"	13.5	P110	LTC	1.69	1.96	3.15	3.93
		<u> </u>		BLM Min	imum Safet	y Factor	1.125	1	1.6 Dry	1.6 Dry
									1.8 Wet	1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide	Y
justification (loading assumptions, casing design criteria).	
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the	Y
collapse pressure rating of the casing?	
1. "我们的现在分词,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人的人,我们就是一个人的人的人,我们就是一个人的人的人,我们就是一个人的人的人, 第一个人的人的人,我们就是一个人的人,我们就是一个人的人的人,我们就是一个人的人的人的人,我们就是一个人的人的人的人的人,我们就是一个人的人的人的人的人的人的人	. Jahrana Tillen
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	
500' into previous casing?	
3. 我们就是我们的自己的,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

## Mewbourne Oil Company, West Loving 11/12 W0GH Fed Com #3H

## Sec 11, T24S, R27E SL: 1370' FNL & 2435' FEL, Sec 11

BHL: 2200' FNL & 330' FEL, Sec 12

## **Casing Program**

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)		138	Collapse	Burst	Tension	Tension
17.5"	0'	375'	13.375"	48	H40	STC	4.49	10.08	17.89	30.06
12.25"	0'	2200'	9.625"	36	J55	LTC	1.71	2.98	5.53	6.89
8.75"	0'	9497'	7"	26	HCP110	LTC	1.63	2.19	2.60	3.36
6.125"	8758'	16,708'	4.5"	13.5	P110	LTC	1.69	1.96	3.15	3.93
				BLM Mini	mum Safet	y Factor	1.125	1	1.6 Dry	1.6 Dry
									1.8 Wet	1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide	Y
justification (loading assumptions, casing design criteria).	
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
To world be and within Courts and Double	111 A 128 1
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	
500' into previous casing?	
Is well located in R-111-P and SOPA?	
	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

## Mewbourne Oil Company, West Loving 11/12 W0GH Fed Com #3H Sec 11, T24S, R27E

SL: 1370' FNL & 2435' FEL, Sec 11 BHL: 2200' FNL & 330' FEL, Sec 12

## **Casing Program**

Hole	Casin	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	375'	13.375"	48	H40	STC	4.49	10.08	17.89	30.06
12.25"	0'	2200'	9.625"	36	J55	LTC	1.71	2.98	5.53	6.89
8.75"	0'	9497'	7"	26	HCP110	LTC	1.63	2.19	2.60	3.36
6.125"	8758'	16,708'	4.5"	13.5	P110	LTC	1.69	1.96	3.15	3.93
				BLM Min	imum Safet	ty Factor	1.125	1	1.6 Dry	1.6 Dry
						•			1.8 Wet	1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide	Y
justification (loading assumptions, casing design criteria).	
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the	Y
collapse pressure rating of the casing?	
responding to the control of the con	<i>a</i>
Is well located within Capitan Reef?	<u>N</u>
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	*
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	
500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
是一次,以上,是不是一个人的人,也是一个人的人,也是这个人。	% 121 <u>.</u> 1. 1. 1.
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

## Mewbourne Oil Company, West Loving 11/12 W0GH Fed Com #3H Sec 11, T24S, R27E

## SL: 1370' FNL & 2435' FEL, Sec 11 BHL: 2200' FNL & 330' FEL, Sec 12

## **Casing Program**

Hole	Casin	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	375'	13.375"	48	H40	STC	4.49	10.08	17.89	30.06
12.25"	0'	2200'	9.625"	36	J55	LTC	1.71	2.98	5.53	6.89
8.75"	0'	9497'	7"	26	HCP110	LTC	1.63	2.19	2.60	3.36
6.125"	8758'	16,708'	4.5"	13.5	P110	LTC	1.69	1.96	3.15	3.93
			BLM Minimum Safety Factor			1.125	1	1.6 Dry	1.6 Dry	
									1.8 Wet	1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	111
Is well within the designated 4 string boundary.	
T 111 CODA 1 CODA 1	
Is well located in SOPA but not in R-111-P?	<u>N</u>
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
	Maria de la composición della
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
	44. J. 1
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

## <u>Hydrogen Sulfide Drilling Operations Plan</u> **Mewbourne Oil Company**

#### 1. General Requirements

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H2S were found. MOC will have on location and working all H2S safety equipment before the Delaware formation for purposes of safety and insurance requirements.

#### 2. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

- 1. The hazards and characteristics of hydrogen sulfide gas.
- 2. The proper use of personal protective equipment and life support systems.
- 3. The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
- 4. The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

- The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a know hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

#### 3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the 9 5/8" intermediate casing.

#### 1. Well Control Equipment

- A. Choke manifold with minimum of one adjustable choke/remote choke.
- B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- C. Auxiliary equipment including annular type blowout preventer.
- 2. Protective Equipment for Essential Personnel

Thirty minute self contained work unit located in the dog house and at briefing areas.

Additionally: If H2S is encountered in concentrations less than 10 ppm, fans will be placed in work areas to prevent the accumulation of hazardous amounts of poisonous gas. If higher concentrations of H2S are detected the well will be shut in and a rotating head, mud/gas separator, remote choke and flare line with igniter will be installed.

#### 3. <u>Hydrogen Sulfide Protection and Monitoring Equipment</u>

Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.

#### 4. <u>Visual Warning Systems</u>

- A. Wind direction indicators as indicated on the wellsite diagram.
- B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

#### 4. Mud Program

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

#### 5. Metallurgy

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

#### 6. Communications

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

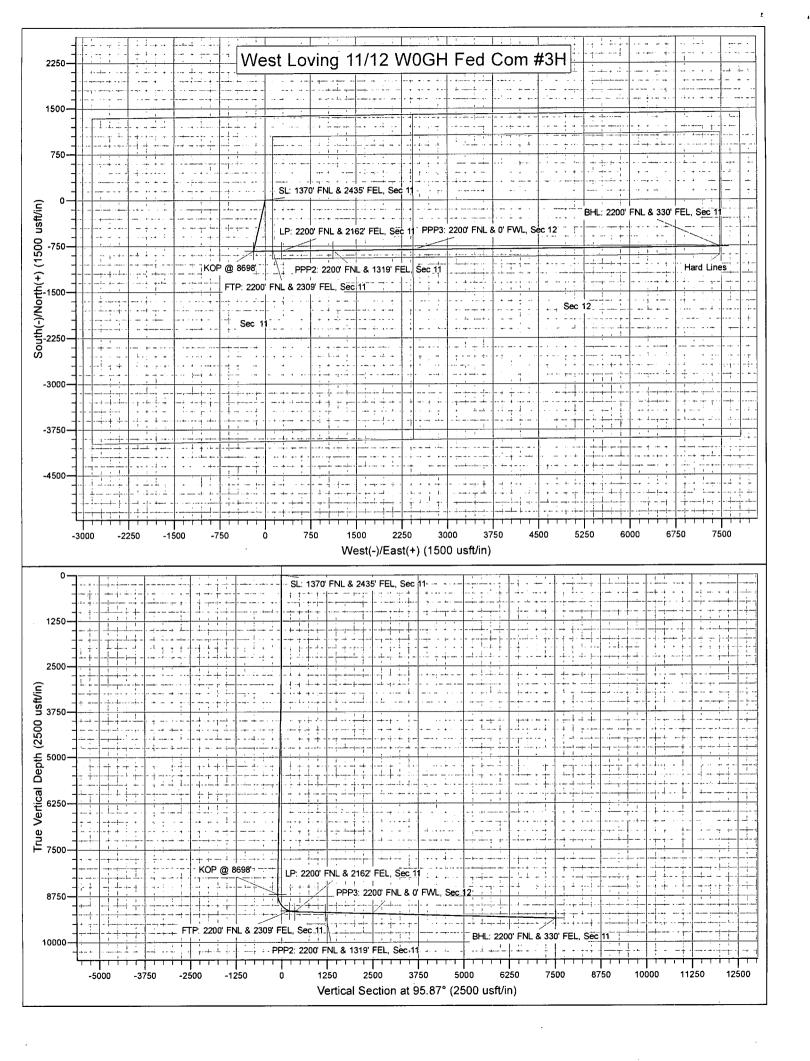
#### 7. Well Testing

Drill stem testing is not an anticipated requirement for evaluation of this well. If a drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

#### 8. Emergency Phone Numbers

<b>Eddy County Sheriff's Office</b>	911 or 575-887-7551
Ambulance Service	911 or 575-885-2111
Carlsbad Fire Dept	911 or 575-885-2111
Loco Hills Volunteer Fire Dept.	911 or 575-677-3266
Closest Medical Facility - Columbia Medical	Center of Carlshad 575-492-5000

Mewbourne Oil Company	Hobbs District Office	575-393-5905		
	Fax	575-397-6252		
	2 <sup>nd</sup> Fax	575-393-7259		
District Manager	Robin Terrell	575-390-4816		
Drilling Superintendent	Frosty Lathan	575-390-4103		
	Bradley Bishop	575-390-6838		
<b>Drilling Foreman</b>	Wesley Noseff	575-441-0729		



# **Mewbourne Oil Company**

Eddy County, New Mexico NAD 83 West Loving 11/12 W0GH Fed Com #3H Sec 11, T24S, R27E

SL: 1370' FNL & 2435' FEL, Sec 11 BHL: 2200' FNL & 330' FEL, Sec 12

Plan: Design #1

# **Standard Planning Report**

26 July, 2018

Database: Hobbs Company: Mewbourne Oil Company Project: Eddy County, New Mexico NAD 83 West Loving 11/12 W0GH Fed Com #3H Site:

Well: Sec 11, T24S, R27E

BHL: 2200' FNL & 330' FEL, Sec 12 Wellbore:

Design: Design #1 Local Co-ordinate Reference:

Site West Loving 11/12 W0GH Fed Com #3H TVD Reference: WELL @ 3150.0usft (Original Well Elev) MD Reference: WELL @ 3150.0usft (Original Well Elev) North Reference:

Minimum Curvature Survey Calculation Method:

Project Eddy County, New Mexico NAD 83

Map System Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983

New Mexico Eastern Zone

System Datum:

Mean Sea Level

West Loving 11/12 W0GH Fed Com #3H Site

449,527.00 usft 32.2357079 Northing: Site Position: Latitude: Easting: 594,695.00 usft -104.1607629 Longitude: Мар From: Slot Radius: 13-3/16 " **Grid Convergence:** 0.09 Position Uncertainty: 0.0 usft

Well √ Sec 11, T24S, R27E 32.2357079 **Well Position** +N/-S 0.0 usft Northing: 449,527.00 usft Latitude: -104.1607629 594,695.00 usft Longitude: +E/-W 0.0 usft Easting: Wellhead Elevation: 3,150.0 usft **Ground Level:** 3,123.0 usft **Position Uncertainty** 0.0 usft

BHL: 2200' FNL & 330' FEL, Sec 12 Field Strength Declination Dip Angle Magnetics Model Name Sample Date (%) (°) (nT): 47,854 IGRF2010 7/26/2018 6.98 59.92

Design #1 Design 👈 💎 **Audit Notes:** Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 Direction +E/-W Vertical Section: Depth From (TVD) (usft) · (°), (usft) (usft) 95.87 0.0 0.0 0.0

Plan Sections			namenajarias - Paris source saprangingas - estrá	innamental of a surface of the surfa	o ngagajamenananagmanagmanana	-		ilina sina manakanan albamin aki	Tanggapan sa dan panggapan sa ng panggapan sa	المحاجب
Measured			Vertical			Dogleg	Build	Turn 🐫 🦠		
Depth (usft)	Inclination (°)	Azimuth	Depth (usft)	+N/-S '(05ff)	+E/-W (usft)	Rate (°/100usft)	(°/100usft)	Rate (°/100usft)	TFO (°)	Target
			The state of the s				4			
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,350.0	0.00	0.00	2,350.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,909.7	8.40	193.06	2,907.7	-39.9	-9.3	1.50	1.50	0.00	193.06	
8,198.5	8.40	193.06	8,139.8	-792.1	-183.7	0.00	0.00	0.00	0.00	•
8,758.2	0.00	0.00	8,697.5	-832.0	-193.0	1.50	-1.50	0.00	180.00	KOP @ 8698'
9,496.5	88.56	89.53	9,175.0	-828.2	272.6	12.00	12.00	0.00	89.53	
16,707.4	88.56	89.53	9,356.0	-769.0	7,481.0	0.00	0.00	0.00	0.00	BHL: 2200' FNL & 33(

Database: Hobbs
Company: Mewbourne
Project: Eddy County

Mewbourne Oil Company
Eddy County, New Mexico NAD 83

West Loving 11/12 W0GH Fed Com #3H

Well: Sec 11, T24S, R27E
Wellbore: BHL: 2200' FNL & 330' FEL, Sec 12

Design: Design #1

Site:

Local Co-ordinate Reference:

TVD Reference:

North Reference: Survey Calculation Method: Site West Loving 11/12 W0GH Fed Com #3H WELL @ 3150.0usft (Original Well Elev) WELL @ 3150.0usft (Original Well Elev)

Grid .

Measured   Vertical   Vertical   Dogleg   Build   Turn	
Depth   Inclination   Azimuth   Depth   +N/-S   +E/-W   Section   Rate   Rate   Rate   (Usft)   (°)   (Usft)   (Usft)   (Usft)   (Usft)   (Usft)   (Usft)   (Usft)   ("/100usft)   ("/	
(usft) (°) (usft) (usft) (usft) (usft) (usft) (100usft) (*/100usft) (*/100usft	
0.0 0.00 0.00 0.00 0.0 0.0 0.0 0.0 0.0	94 (14)
SL: 1370' FNL & 2435' FEL, Sec 11  100.0 0.00 0.00 100.0 0.00 0.00 0.0	
100.0         0.00         0.00         100.0         0.0         0.0         0.00 <td< th=""><th></th></td<>	
200.0         0.00         0.00         200.0         0.0         0.0         0.0         0.00	
300.0         0.00         0.00         300.0         0.0         0.0         0.0         0.00	
400.0         0.00         0.00         400.0         0.0         0.0         0.0         0.00	
500.0         0.00         0.00         500.0         0.0         0.0         0.00         0.00         0.00           600.0         0.00         0.00         600.0         0.0         0.0         0.0         0.0	
600.0         0.00         0.00         600.0         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         0.00           800.0         0.00         0.00         800.0         0.0         0.0         0.0         0.00 <td></td>	
700.0 0.00 0.00 700.0 0.0 0.0 0.0 0.0 0.	
800.0 0.00 0.00 800.0 0.0 0.0 0.0 0.00 0.00 0.00 0.00 900.0 0.00 0	
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 1,000.0 0.0 0.0 0.0 0.00 0.0	
1,000.0 0.00 0.00 1,000.0 0.0 0.0 0.0 0.00 0.0	
,	
1,100.0 0.00 0.00 1,100.0 0.0 0.0 0.0 0.00 0.0	
1,200.0 0.00 0.00 1,200.0 0.0 0.0 0.0 0.0 0.00 0.00	
1,300.0 0.00 0.00 1,300.0 0.0 0.0 0.0 0.00 0.00	
1,400.0 0.00 0.00 1,400.0 0.0 0.0 0.0 0.00 0.00 0.00	
1,500.0 0.00 0.00 1,500.0 0.0 0.0 0.0 0.00 0.00 0.00	
1,600.0 0.00 0.00 1,600.0 0.0 0.0 0.0 0.00 0.00 0.00	
1,700.0 0.00 0.00 1,700.0 0.0 0.0 0.0 0.00 0.00 0.00	
1,800.0 0.00 0.00 1,800.0 0.0 0.0 0.0 0.00 0.00 0.00	
1,900.0 0.00 0.00 1,900.0 0.0 0.0 0.0 0.00 0.00 0.00	
2,000.0 0.00 0.00 2,000.0 0.0 0.0 0.0 0.00 0.0	
2,100.0 0.00 0.00 2,100.0 0.0 0.0 0.0 0.00 0.00 0.00	
2,200.0 0.00 0.00 2,200.0 0.0 0.0 0.0 0.00 0.0	
2,300.0 0.00 0.00 2,300.0 0.0 0.0 0.0 0.00 0.00 0.00	
2,350.0 0.00 0.00 2,350.0 0.0 0.0 0.0 0.00 0.00 0.00	
2,400.0 0.75 193.06 2,400.0 -0.3 -0.1 0.0 1.50 1.50 0.00	
2,500.0 2.25 193.06 2,500.0 -2.9 -0.7 -0.4 1.50 1.50 0.00	
2,600.0 3.75 193.06 2,599.8 -8.0 -1.8 -1.0 1.50 1.50 0.00	
<b>2,700.0</b> 5.25 193.06 2,699.5 -15.6 -3.6 -2.0 1.50 1.50 0.00	
2,800.0 6.75 193.06 2,799.0 -25.8 -6.0 -3.3 1.50 1.50 0.00	
2,900.0 8.25 193.06 2,898.1 -38.5 -8.9 -4.9 1.50 1.50 0.00	
2,909.7 8.40 193.06 2,907.7 -39.9 -9.3 -5.1 1.50 1.50 0.00	
3,000.0 8.40 193.06 2,997.0 -52.7 -12.2 -6.8 0.00 0.00 0.00	
3,100.0 8.40 193.06 3,096.0 -66.9 -15.5 -8.6 0.00 0.00 0.00	
3,200.0 8.40 193.06 3,194.9 -81.2 -18.8 -10.4 0.00 0.00 0.00	
3,300.0 8.40 193.06 3,293.8 -95.4 -22.1 -12.3 0.00 0.00 0.00	
3,400.0 8.40 193.06 3,392.7 -109.6 -25.4 -14.1 0.00 0.00 0.00	
3,500.0 8.40 193.06 3,491.7 -123.8 -28.7 -15.9 0.00 0.00 0.00	
3,600.0 8.40 193.06 3,590.6 -138.1 -32.0 -17.7 0.00 0.00 0.00	
3,700.0 8.40 193.06 3,689.5 -152.3 -35.3 -19.6 0.00 0.00 0.00	
3,800.0 8.40 193.06 3,788.5 -166.5 -38.6 -21.4 0.00 0.00 0.00	
3,900.0 8.40 193.06 3,887.4 -180.7 -41.9 -23.2 0.00 0.00 0.00	
4,000.0 8.40 193.06 3,986.3 -195.0 -45.2 -25.1 0.00 0.00 0.00	
4,100.0 8.40 193.06 4,085.2 -209.2 -48.5 -26.9 0.00 0.00 0.00	
4,200.0 8.40 193.06 4,184.2 -223.4 -51.8 -28.7 0.00 0.00	
4,300.0 8.40 193.06 4,283.1 -237.6 -55.1 -30.5 0.00 0.00 0.00	
4,400.0 8.40 193.06 4,382.0 -251.8 -58.4 -32.4 0.00 0.00 0.00	
4,500.0 8.40 193.06 4,481.0 -266.1 -61.7 -34.2 0.00 0.00 0.00	
<b>4,600.0</b> 8.40 193.06 <b>4,579.9 -280.3 -65.0 -36.0 0.00 0.00 0.00</b>	
4,700.0 8.40 193.06 4,678.8 -294.5 -68.3 -37.8 0.00 0.00	
4,800.0 8.40 193.06 4,777.7 -308.7 -71.6 -39.7 0.00 0.00	
4,900.0 8.40 193.06 4,876.7 -323.0 -74.9 -41.5 0.00 0.00 0.00	
5,000.0 8.40 193.06 4,975.6 -337.2 -78.2 -43.3 0.00 0.00 0.00	

Database: Company:

Well:

Wellbore:

Hobbs

Mewbourne Oil Company

Project: Eddy County,
Site: West Loving 1

Eddy County, New Mexico NAD 83 West Loving 11/12 W0GH Fed Com #3H

Sec 11, T24S, R27E BHL: 2200' FNL & 330' FEL, Sec 12

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

North Reference:

Survey Calculation Method:

Site West Loving 11/12 W0GH Fed Com #3H WELL @ 3150.0usft (Original Well Elev) WELL @ 3150.0usft (Original Well Elev)

Grid

Planned Su	urvey	V. C., I.,					and the second s	مما المدينة التهداء بعسست والحد الله الدينسوم بديم	en e	- American frances of the state
									D. H.J.	
	easured			Vertical Depth	, iu o		Vertical Section	Dogleg Rate	Build Rate	Turn Rate
	Depth (usft)	Inclination (°)	Azimuth (°)	(usft)	+N/-S (usft)	+E/-W (usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	5,100.0	8.40	193.06	5,074.5	-351.4	-81.5	-45.2	0.00	0.00	0.00
	5,200.0	8.40	193.06	5,173.5	-365.6	-84.8	-47.0	0.00	0.00	0.00
	5,300.0	8.40	193.06	5,272.4	-379.9	-88.1	-48.8	0.00	0.00	0.00
	5,400.0	8.40	193.06	5,371.3	-394.1	-91.4	-50.6	0.00	0.00	0.00
	5,500.0	8.40	193,06	5,470.2	-408.3	-94.7	-52.5	0.00	0.00	0.00
	5,600.0	8.40		5,569.2	-422.5	-98.0	-54.3	0.00	0.00	0.00
	5,700.0	8.40	193.06	5,668.1	-436.8	-101.3	-56.1	0.00	0.00	0.00
	5,800.0	8.40	193.06	5,767.0	-451.0	-104.6	-58.0	0.00	0.00	0.00
	5,900.0	8.40	193.06	5,866.0	-465.2	-107.9	-59.8	0.00	0.00	0.00
	6,000.0	8.40		5,964.9	-479.4	-111.2	-61.6	0.00	0.00	0.00
	6,100.0	8.40	193.06	6,063.8	-493.6	-114,5	-63.4	0.00	0.00	0.00
	6,200.0	8.40	193.06	6,162.7	-507.9	-117.8	-65.3	0.00	0.00	0.00
	6,300.0	8.40		6,261.7	-522.1	-121.1	-67.1	0.00	0.00	0.00
	6,400.0	8.40	193.06	6,360.6	-536.3	-124.4	-68.9	0.00	0.00	0.00
•	6,500.0	8.40		6,459.5	-550.5	-127.7	-70.7	0.00	0.00	0.00
	6,600.0	8.40	193.06	6,558.5	-564.8	-131.0	-72.6	0.00	0.00	0.00
	6,700.0	8.40	193.06	6,657.4	-579.0	-134.3	-74.4	0.00	0.00	0.00
	6,800.0	8.40		6,756.3	-593.2	-137.6	-76.2	0.00	0.00	0.00
	6,900.0	8.40		6,855.2	-607.4	-140.9	<b>-</b> 78.1	0.00	0.00	0.00
	7,000.0	8.40		6,954.2	-621,7	-144.2	-79.9	0.00	0.00	0.00
	7,100.0	8.40		7,053.1	-635.9	-147.5	-81.7	0.00	0.00	0.00
	7,200.0	8.40	193.06	7,152.0	-650.1	-150.8	-83.5	0.00	0.00	0.00
	7,300.0	8.40	193.06	7,250.9	-664.3	-154.1	-85.4	0.00	0.00	0.00
	7,400.0	8.40		7,349.9	-678.5	-157.4	-87.2	0.00	0.00	0.00
	7,500.0	8.40		7,448.8	-692.8	-160.7	-89.0	0.00	0.00	0.00
	7,600.0	8.40		7,547.7	-707.0	-164.0	-90.8	0.00	0.00	0.00
	7,700.0	8.40	193.06	7,646.7	-721.2	-167.3	-92.7	0.00	0.00	0.00
	7,800.0	8.40	193.06	7,745.6	-735.4	-170.6	-94.5	0.00	0.00	0.00
	7,900.0	8.40		7,844.5	-749.7	-173.9	-96.3	0.00	0.00	0.00
	8,000.0	8.40		7,943.4	-763.9	-177.2	-98.2	0.00	0.00	0.00
	8,100.0	8.40		8,042.4	-778.1	-180.5	-100.0	0.00	0.00 0.00	0.00 0.00
	8,198.5	8.40	193.06	8,139.8	-792.1	-183.7	-101.8	0.00		
	8,200.0	8.37		8,141.3	-792.3	-183.8	-101.8	1.50	-1.50	0.00
	8,300.0	6.87		8,240.4	-805.3	-186.8	-103.5	1.50	-1.50	0.00
	8,400.0	5.37	193.06	8,339.8	-815.6	-189.2	-104.8	1.50 1.50	-1.50 -1.50	0.00 0.00
	8,500.0 8,600.0	3.87 2.37	193.06 193.06	8,439.5 8,539.4	-823.5 -828.8	-191.0 -192.3	-105.8 -106.5	1.50	-1.50 -1.50	0.00
	8,700.0	0.87		8,639.3	-831.6	-192.9	-106.9	1.50	-1.50	0.00
	8,758.2	0.00	0.00	8,697.5	-832.0	-193.0	-106.9	1.50	-1.50	0.00
K	OP @ 8698		20.50	. 0.700.0		404.0	. 405.4	10.00	12.00	0.00
	8,800.0	5.01	89.53	8,739.3	-832.0	-191.2	-105.1	12.00 12.00	12.00 12.00	0.00
•	8,900.0	17.01		8,837.2	-831.8 -831.5	-172.1 -133.1	-86.2 -47.4	12.00	12.00	0.00
	9,000.0	29.00		8,929.1	-831.5					
	9,100.0	41.00		9,010.9	-831.0	-75.8	9.5	12.00	12.00	0.00
	9,200.0	53.00		9,079.0		-2.8	82.1	12.00	12.00	0.00
	9,300.0	64.99		9,130.4		82.7	167.1	12.00	12.00	0.00
	9,346.8	70.60	and the second second second	9,148.0	-829.4	126.0	210.1	12.00	12.00	0.00
· F		NL & 2309' FE	· ·	0.400.0	222.2	4774				0.00
	9,400.0	76.99	89.53	9,162.9	-829.0	177,1	260.9	12.00	12.00	0.00
	9,496.5	88.56	89.53	9,175.0	-828.2	272.6	355.9	12.00	12.00	0.00
L	.P: 2200' FN	IL & 2162' FEL,	, Sec 11	•			e to the second			
	9,500.0	88.56	89.53	9,175.1	-828.1	276.1	359.4	0.02	0.02	0.00
	9,600.0	88.56	89,53	9,177.6	-827.3	376.1	458.7	0.00	0.00	0.00

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico

Eddy County, New Mexico NAD 83 West Loving 11/12 W0GH Fed Com #3H

Well: Sec 11, T24S, R27E
Wellbore: BHL: 2200' FNL & 330' FEL, Sec 12

Design: Design #1

Site:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site West Loving 11/12 W0GH Fed Com #3H

WELL @ 3150.0usft (Original Well Elev)
WELL @ 3150.0usft (Original Well Elev)

Grid

nned Survey					a francisco considera y provincia a provincia de la considera			en e	
Measured			Vertical			Vertical	Dogleg	Build	Turn
		Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
9,700.0	88.56	89.53	9,180.1	-826.5	476.1	558.1	0.00	0.00	0.00
9,800.0	88.56	89.53	9,182.6	-825.7	576.0	657.5	0.00	0.00	0.00
9,900.0	88.56	89.53	9,185.1	-824.9	676.0	756.8	0.00	0.00	0.00
10,000.0	88.56	89.53	9,187.6	-824.0	776.0	856.2	0.00	0.00	0.00
10,100.0	88.56	89.53	9,190.1	-823.2	875.9	955.5	0.00	0.00	0.00
10,200.0	88.56	89.53	9,192.7	-822.4	975.9	1,054.9	0.00	0.00	0.00
10,300.0	88.56	89.53	9,195.2	-821.6	1,075.9	1,154.2	0.00	0.00	0.00
10,341.1	88.56	89.53	9,196.2	-821.2	1,117.0	1,195.1	0.00	0.00	0.00
•	NL & 1319' FEL, S		0,100.2		,,,,,,	7,100.1	0.00	0.00	0.00
10,400.0	88.56	89.53	9,197.7	-820.8	1 175 0	1 252 6	0.00	0.00	0.00
10,500.0	88.56	89.53	9,200.2	-820.8 -819.9	1,175.8 1,275.8	1,253.6 1,353.0	0.00 0.00	0.00 0.00	0.00 0.00
10,600.0	88.56	89.53	9,200.2	-819.1	1,275.8	1,353.0	0.00	0.00	0.00
10,700.0	88.56	89.53	9,205.2	-818.3		1,452.3			
					1,475.7		0.00	0.00	0.00
10,800.0	88.56	89.53	9,207.7	-817.5	1,575.7	1,651.0	0.00	0.00	0.00
10,900.0	88.56	89.53	9,210.2	-816.7	1,675.7	1,750.4	0.00	0.00	0.00
11,000.0	88.56	89.53	9,212.7	-815.8	1,775.6	1,849.7	0.00	0.00	0.00
11,100.0	88.56	89.53	9,215.3	-815.0	1,875.6	1,949.1	0.00	0.00	. 0.00
11,200.0	88.56	89.53	9,217.8	-814.2	1,975.6	2,048.5	0.00	0.00	0.00
11,300.0	88.56	89.53	9,220.3	-813.4	2,075.5	2,147.8	0.00	0.00	0.00
11,400.0	88.56	89.53	9,222.8	-812.6	2,175.5	2,247.2	0.00	0.00	0.00
11,500.0	88.56	89.53	9,225.3	-811.7	2,275.4	2,346.5	0.00	0.00	0.00
11,600.0	88.56	89.53	9,227.8	-810.9	2,375.4	2,445.9	0.00	0.00	0.00
11,660.6	88.56	89.53	9,229.3	-810.4	2,436.0	2,506.1	0.00	0.00	0.00
	NL & 0' FWL, Sec				. = ,	_,			5.55
11,700.0	88.56	89.53	9,230.3	940.4	0.475.4	0.545.0	0.00		
11,800.0	88.56	89.53	9,230.3	-810.1 -809.3	2,475.4	2,545.2 2,644.6	0.00	0.00	0.00
11,900.0	88.56	89.53	9,235.3	-808.5	2,575.3 2,675.3	2,744.0	0.00 0.00	0:00 0.00	0.00
12,000.0	88.56	89.53	9,237.8	-807.6	2,675.3	2,843.3	0.00	0.00	0.00 0.00
12,100.0	88.56	89.53	9,240.4	-806.8	2,875.2	2,942.7	0.00	0.00	0.00
							0.00	0.00	0.00
12,200.0	88.56	89.53	9,242.9	-806.0	2,975.2	3,042.0	0.00	0.00	0,00
12,300.0	88.56	89.53	9,245.4	-805.2	3,075.2	3,141.4	0.00	0.00	0.00
12,400.0	88.56	89.53	9,247.9	-804.3	3,175.1	3,240.7	0.00	0.00	0.00
12,500.0	88.56	89.53	9,250.4	-803.5	3,275.1	3,340.1	0.00	0.00	0.00
12,600.0	88.56	89.53	9,252.9	-802.7	3,375.1	3,439.5	0.00	0.00	0.00
12,700.0	88.56	89.53	9,255.4	-801.9	3,475.0	3,538.8	0.00	0.00	0.00
12,800.0	88.56	89.53	9,257.9	-801.1	3,575.0	3,638.2	0.00	0.00	0.00
12,900.0	88.56	89.53	9,260.4	-800.2	3,675.0	3,737.5	0.00	0.00	0.00
13,000.0	88,56	89.53	9,262.9	-799.4	3,774.9	3,836.9	0.00	0.00	0.00
13,100.0	88.56	89.53	9,265.5	-798.6	3,874.9	3,936.2	0.00	0.00	0.00
13,200,0	88.56	89.53	9,268.0	-797.8	3,974.9	4,035.6	0.00	0.00	0.00
13,300.0	88.56	89.53	9,270.5	-797.0	3,974.9 4,074.8	4,035.6 4,135.0	0.00	0.00	0.00
13,400.0	88.56	89.53	9,270.3	-797.0 -796.1	4,074.8	4,135.0	0.00	0.00	0.00
13,500.0	88,56	89.53	9,275.5	-795.3	4,174.6	4,234.3	0.00	0.00	0.00
13,600.0	88.56	89.53	9,278.0	-794.5	4,374.7	4,433.0	0.00	0.00	0.00
•									
13,700.0	88.56	89.53	9,280.5	-793.7	4,474.7	4,532.4	0.00	0.00	0.00
13,800.0	88.56	89.53	9,283.0	-792.9	4,574.6	4,631.7	0.00	0.00	0.00
13,900.0	88.56	89.53	9,285.5	-792.0	4,674.6	4,731.1	0.00	0.00	0.00
14,000.0	88.56	89.53	9,288.0	-791.2	4,774.6	4,830.5	0.00	0.00	0.00
14,100.0	88.56	89.53	9,290.6	-790.4	4,874.5	4,929.8	0.00	0.00	0.00
14,200.0	88.56	89.53	9,293.1	-789.6	4,974.5	5,029.2	0.00	0.00	0.00
14,300.0	88.56	89.53	9,295.6	-788.8	5,074.5	5,029.2 5,128.5	0.00	0.00	0.00
14,400.0	88.56	89.53	9,298.1	-787.9	5,174.4	5,126.5	0.00	0.00	0.00
14,500.0	88.56	89.53	9,300.6	-787.1	5,274.4	5,327.2	0.00	0.00	0.00
14,600,0	88.56	89.53	9,303.1	-786.3	5,374.4	5,426.6	0.00	0.00	0.00

Database: Company: Project:

Site:

Hobbs

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

West Loving 11/12 W0GH Fed Com #3H

Well: Sec 11, T24S, R27E
Wellbore: BHL: 2200' FNL & 330' FEL, Sec 12

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

North Reference:

Survey Calculation Method:

Site West Loving 11/12 W0GH Fed Com #3H WELL @ 3150.0usft (Original Well Elev)

WELL @ 3150.0usft (Original Well Elev)

Grid

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
14,700.0	88.56	89.53	9,305.6	-785.5	5,474.3	5,526.0	0.00	0.00	0.00
14,800.0	88.56	89.53	9,308.1	-784.7	5,574.3	5,625.3	0.00	0.00	0.00
14,900.0	88.56	89.53	9,310.6	-783.8	5,674.3	5,724.7	• 0.00	0.00	0.00
15,000.0	88.56	89.53	9,313.1	-783.0	5,774.2	5,824.0	0.00	0.00	0.00
15,100.0	88.56	89.53	9,315.7	-782.2	5,874.2	5,923.4	0.00	0.00	0.00
15,200.0	88.56	89.53	9,318.2	-781.4	5,974.2	6,022.7	0.00	0.00	0.00
15,300.0	88.56	89.53	9,320.7	-780.5	6,074.1	6,122.1	0.00	0.00	0.00
15,400.0	88.56	89,53	9,323.2	-779.7	6,174.1	6,221.5	0.00	0.00	0.00
15,500.0	88.56	89.53	9,325.7	-778.9	6,274.1	6,320.8	0.00	0.00	0.00
15,600.0	88.56	89.53	9,328.2	-778.1	6,374.0	6,420.2	0.00	0.00	0.00
15,700.0	88.56	89.53	9,330.7	-777.3	6,474.0	6,519.5	0.00	0.00	0.00
15,800.0	88.56	89.53	9,333.2	-776.4	6,573.9	6,618.9	0.00	0.00	0.00
15,900.0	88.56	89.53	9,335.7	-775.6	6,673.9	6,718.2	0.00	0.00	0.00
16,000.0	88,56	89.53	9,338.2	-774.8	6,773.9	6,817.6	0.00	0.00	0.00
16,100.0	88.56	89.53	9,340.8	-774.0	6,873.8	6,917.0	0.00	0.00	0.00
16,200.0	88.56	89.53	9,343.3	-773.2	6,973.8	7,016.3	0.00	0.00	0.00
16,300.0	88.56	89.53	9,345.8	-772,3	7,073.8	7,115.7	0.00	0.00	0.00
16,400.0	88.56	89.53	9,348.3	-771.5	7,173.7	7,215.0	0.00	0.00	0.00
16,500.0	88.56	89.53	9,350.8	-770.7	7,273.7	7,314.4	0.00	0.00	0.00
16,600.0	88.56	89.53	9,353.3	-769.9	7,373.7	7,413.7	0.00	0.00	0.00
16,700.0	88.56	89.53	9,355.8	-769.1	7,473.6	7,513.1	0.00	0.00	0.00
16,707.4	88.56	89.53	9,356.0	-769.0	7,481.0	7,520.4	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target C - Shape	)ip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (üsft)	Easting (usft)	Latitude	Longitude
SL: 1370' FNL & 2435' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	449,527.00	594,695.00	32.2357079	-104.1607629
KOP @ 8698' - plan hits target center - Point	0.00	0.00	8,697.5	-832.0	-193.0	448,695.00	594,502.00	32.2334217	-104.1613914
FTP: 2200' FNL & 2309' - plan hits target center - Point	· 0.00	0.00	9,148.0	-829.4	126.0	448,697.62	594,821.00	32,2334275	-104.1603597
LP: 2200' FNL & 2162' F - plan hits target center - Point	0.00	0.00	9,175.0	-828.2	272.6	448,698.80	594,967.60	32.2334301	-104.1598856
PPP2: 2200' FNL & 1319 - plan hits target center - Point	0.00 r	0.00	9,196.2	-821.2	1,117.0	448,705.75	595,812.00	32.2334454	-104.1571546
PPP3: 2200' FNL & 0' F\ - plan hits target center - Point	0.00	0.00	9,229.3	-810.4	2,436.0	448,716.58	597,131.00	32.2334692	-104.1528888
BHL: 2200' FNL & 330' F - plan hits target center - Point	0.00	0.00	9,356.0	-769.0	7,481.0	448,758.00	602,176.00	32.2335587	-104.1365723

Database:	Hobbs	Local Co-ordinate Reference: Site West Loving 11/12 W0GH Fed Com #3H
Company:	Mewbourne Oil Company	TVD Reference: WELL @ 3150.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference: WELL @ 3150.0usft (Original Well Elev)
Site:	West Loving 11/12 W0GH Fed Com #3H	North Reference: Grid
Well:	Sec 11, T24S, R27E	Survey Calculation Method: Minimum Curvature
Wellbore:	BHL: 2200' FNL & 330' FEL, Sec 12'	
Design:	Design #1	

SL: 1370' FNL & 2435' FEL, Sec 11 BHL: 2200' FNL & 330' FEL, Sec 12

## 1. Geologic Formations

TVD of target	9356'	Pilot hole depth	NA
MD at TD:	16,708'	Deepest expected fresh water:	75'

#### **Basin**

Dasiii	The same services	Carry Zamera La inclusion	THE RESERVE OF THE PARTY OF THE
Formation	from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler			
Top of Salt			
Castile	630		
Base of Salt	2060		
Yates			
Capitan			
Lamar	2270	Oil	
Bell Canyon	2325		
Cherry Canyon	3155		
Manzanita Marker	3285		
Brushy Canyon	4265		
Bone Spring	5755	Oil/Gas	
1st Bone Spring Sand	6795		
2 <sup>nd</sup> Bone Spring Sand	7320		
3 <sup>rd</sup> Bone Spring Sand	8690		
Abo			
Wolfcamp	9060	Target Zone	
Devonian			
Ellenburger			
Granite Wash			

<sup>\*</sup>H2S, water flows, loss of circulation, abnormal pressures, etc.

SL: 1370' FNL & 2435' FEL, Sec 11 BHL: 2200' FNL & 330' FEL, Sec 12

#### 2. Casing Program

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	□ SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	375'	13.375"	48	H40	STC	4.49	10.08	17.89	30.06
12.25"	0'	2200'	9.625"	36	J55	LTC	1.71	2.98	5.53	6.89
8.75"	0'	9497'	7"	26	HCP110	LTC	1.63	2.19	2.60	3.36
6.125"	8758'	16,708'	4.5"	13.5	P110	LTC	1.69	1.96	3.15	3.93
	BLM Mini	mum Safety F	actor 1.1	25	1 1.	6 Dry	1.6 Dry			
					1.	8 Wet	1.8 Wet			

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide	Y
justification (loading assumptions, casing design criteria).	
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the	Y
collapse pressure rating of the casing?	
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	
500' into previous casing?	
Is well located in R-111-P and SOPA?	N.T
	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
	IN .
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	

SL: 1370' FNL & 2435' FEL, Sec 11 BHL: 2200' FNL & 330' FEL, Sec 12

	27.24
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

# 3. Cementing Program

Casing	# Sks	Wt.	Yld	H <sub>2</sub> 0	500#	Slurry Description
		lb/.	ft3/	gal/	Comp.	
1		gal	sack	sk	Strength	
V. Fuell			4 4 4 4 4 6 4 6 4 6 4 6 6 6 6 6 6 6 6 6		(hours)	
Surf.	125	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter.	305	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod.	325	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer +
Stg 1						Extender
2.8	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
	·				ECP/DV T	'ool @ 3285'
Prod.	60	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
Stg 2	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	320	11.2	2.97	18	16	Class C + Salt + Gel + Fluid Loss + Retarder +
				<u> </u>		Dispersant + Defoamer + Anti-Settling Agent

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	2000'	25%
Liner	8758'	25%

SL: 1370' FNL & 2435' FEL, Sec 11 BHL: 2200' FNL & 330' FEL, Sec 12

#### 4. Pressure Control Equipment

N	Variance: None		

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Туре			Tested to:
	13-5/8"	5M	Aı	nnular	X	2500#
			Blind Ram		X	
12-1/4"			Pipe Ram		X	5000#
			Double Ram			3000#
			Other*			•

<sup>\*</sup>Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X Formation integrity test will be performed per Onshore Order #2.
On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.

SL: 1370' FNL & 2435' FEL, Sec 11 BHL: 2200' FNL & 330' FEL, Sec 12

Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.				
	N Are anchors required by manufacturer?				
Y					
	•	Provide description here: See attached schematic.			

#### 5. Mud Program

T	VD	Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	375'	FW Gel	8.6-8.8	28-34	N/C
375'	2200'	Saturated Brine	10.0	28-34	N/C
2200'	9175'	Cut Brine	8.6-9.5	28-34	N/C
9175'	9356'	OBM	10.0-12.0	30-40	<10cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. MW up to 13.0 ppg may be required for shale control. The highest MW needed to balance formation pressure is expected to be 12.0 ppg.

What will be used to monitor the loss or gain	Pason/PVT/Visual Monitoring
of fluid?	

#### 6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
X	Will run GR/CNL from KOP (8758') to surface (horizontal well – vertical portion of
•	hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

SL: 1370' FNL & 2435' FEL, Sec 11 BHL: 2200' FNL & 330' FEL, Sec 12

Add	litional logs planned	Interval
X	Gamma Ray	8758' (KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

## 7. Drilling Conditions

Condition	Specify what type and where?	
BH Pressure at deepest TVD	5839 psi	
Abnormal Temperature	No	

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present	
X	H2S Plan attached	

#### 8. Other facets of operation

Is this a walking operation? If yes, describe. Will be pre-setting casing? If yes, describe.

# Mewbourne Oil Company, West Loving 11/12 W0GH Fed Com #3H Sec 11, T24S, R27E SL: 1370' FNL & 2435' FEL, Sec 11 BHL: 2200' FNL & 330' FEL, Sec 12 Attachments \_\_\_ Directional Plan \_\_ Other, describe

Well Name: WESTLOVING 11/12 W0GH FED COM Well Number: 3H

Access surfacing type: OTHER

Access topsoil source: OFFSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth:

Offsite topsoil source description: Topsoil will be on edge of lease road.

Onsite topsoil removal process:

Access other construction information: None

Access miscellaneous information: None

Number of access turnouts: 1

Access turnout map:

#### **Drainage Control**

New road drainage crossing: OTHER

**Drainage Control comments: None** 

Road Drainage Control Structures (DCS) description: None

Road Drainage Control Structures (DCS) attachment:

#### **Access Additional Attachments**

Additional Attachment(s):

#### **Section 3 - Location of Existing Wells**

Existing Wells Map? YES

Attach Well map:

Westloving11\_12W0GHFedCom3H\_\_existingwellmap\_20180727092136.pdf

**Existing Wells description:** 

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Battery will be N of location off of incoming road & buried Sendero pipeline.

**Production Facilities map:** 

Westloving11\_12W0GHFedCom3H\_\_productionfacilitymap\_20180727092214.pdf

#### Section 5 - Location and Types of Water Supply

#### **Water Source Table**

Well Name: WESTLOVING 11/12 W0GH FED COM

Well Number: 3H

Water source use type: DUST CONTROL,

Water source type: IRRIGATION INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE

**CASING** 

Describe type:

Source longitude: -104.81163

Source volume (acre-feet): 0.27737793

Water source type: IRRIGATION

Source latitude: 32.13711 Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 2152

Source volume (gal): 90384

Water source use type: DUST CONTROL, INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE

**CASING** 

Describe type: Source longitude: -104.81163

Source latitude: 32.13711 Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: FEDERAL

Water source transport method: TRUCKING

Source transportation land ownership: COMMERCIAL

Source volume (acre-feet): 0.27737793 Water source volume (barrels): 2152

Source volume (gal): 90384

Water source and transportation map:

Westloving11 12W0GHFedCom3H\_waterourseandtransmap\_20180727092244.pdf

Water source comments: Both sources shown on one map.

New water well? NO

#### **New Water Well Info**

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aguifer documentation:

Well depth (ft):

Well casing type:

Well Name: WESTLOVING 11/12 W0GH FED COM

Well Number: 3H

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

**Drilling method:** 

**Drill material:** 

**Grout material:** 

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

#### Section 6 - Construction Materials

Construction Materials description: Caliche

**Construction Materials source location attachment:** 

Westloving11\_12W0GHFedCom3H calichesourseandtransmap 20180727092324.pdf

#### **Section 7 - Methods for Handling Waste**

Waste type: DRILLING

Waste content description: Drill cuttings

Amount of waste: 940

barrels

Waste disposal frequency: One Time Only

Safe containment description: Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.)

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: PRIVATE

**FACILITY** 

Disposal type description:

Disposal location description: NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec. 27 T20S R32E.

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500

gallons

Waste disposal frequency: Weekly

Safe containment description: 2,000 gallon plastic container

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: PRIVATE

**FACILITY** 

Disposal type description:

Well Name: WESTLOVING 11/12 W0GH FED COM

Well Number: 3H

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage & trash

Amount of waste: 1500

pounds

Waste disposal frequency: One Time Only

Safe containment description: Enclosed trash trailer

Safe containment attachment:

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

**FACILITY** 

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

#### **Reserve Pit**

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

#### **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? NO

**Description of cuttings location** 

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Well Name: WESTLOVING 11/12 W0GH FED COM Well Number: 3H

#### **Section 8 - Ancillary Facilities**

Are you requesting any Ancillary Facilities?: NO

**Ancillary Facilities attachment:** 

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Westloving11 12W0GHFedCom3H wellsitelayout 20180727092407.pdf

Comments:

#### Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: WEST LOVING 11/12

Multiple Well Pad Number: 3

Recontouring attachment:

Drainage/Erosion control construction: None Drainage/Erosion control reclamation: None

Well pad proposed disturbance

(acres): 4.224

Road proposed disturbance (acres):

0.13

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0

Other proposed disturbance (acres): 0

Total proposed disturbance: 4.354

Road interim reclamation (acres): 0

Powerline interim reclamation (acres): Powerline long term disturbance

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

Other interim reclamation (acres): 0

Total interim reclamation: 1.66

Well pad interim reclamation (acres): Well pad long term disturbance

(acres): 2.564

Road long term disturbance (acres): 0

(acres): 0

(acres): 0

Other long term disturbance (acres): 0

Total long term disturbance: 2.564

Disturbance Comments: In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging. Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

Operator Name: MEWBOURNE OIL COMPANY	
Well Name: WESTLOVING 11/12 W0GH FED COM	Well Number: 3H
Soil treatment: NA	
Existing Vegetation at the well pad: Various brush 8	k grasses
Existing Vegetation at the well pad attachment:	
Existing Vegetation Community at the road: Variou	us brush & grasses
Existing Vegetation Community at the road attachr	ment:
Existing Vegetation Community at the pipeline: NA	
Existing Vegetation Community at the pipeline atta	achment:
Existing Vegetation Community at other disturband	ces: NA
Existing Vegetation Community at other disturband	ces attachment:
Non native seed used? NO	
Non native seed description:	
Seedling transplant description:	
Will seedlings be transplanted for this project? NO	)
Seedling transplant description attachment:	
Will seed be harvested for use in site reclamation?	? NO
Seed harvest description:	,
Seed harvest description attachment:	
Seed Management Seed Table	
Seed type:	Seed source:
Seed name:	
Source name:	Source address:
Source phone:	
Seed cultivar:	
Seed use location:	
PLS pounds per acre:	Proposed seeding season:

Total pounds/Acre: **Seed Summary** 

PLS pounds per acre:

Well Name: WESTLOVING 11/12 W0GH FED COM

Well Number: 3H

Seed Type

Pounds/Acre

#### Seed reclamation attachment:

#### **Operator Contact/Responsible Official Contact Info**

First Name: Bradley

Last Name: Bishop

Phone: (575)393-5905

Email: bbishop@mewbourne.com

**Seedbed prep:** Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Seed BMP: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

Seed method: drilling or broadcasting seed over entire reclaimed area.

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: NA

Weed treatment plan attachment:

**Monitoring plan description:** vii. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion and invasive/noxious weeds are controlled.

Monitoring plan attachment:

Success standards: regrowth within 1 full growing season of reclamation.

Pit closure description: NA

Pit closure attachment:

#### **Section 11 - Surface Ownership**

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

**NPS Local Office:** 

State Local Office:

Military Local Office:

Operator Name: MEWBOURNE OIL COMPANY Well Name: WESTLOVING 11/12 W0GH FED COM Well Number: 3H **USFWS Local Office:** Other Local Office: **USFS** Region: **USFS** Forest/Grassland: **USFS** Ranger District: Fee Owner Address: 1501 Mountain Shadow Dr. Carlsbad, Fee Owner: Scott Branson NM 88220 Phone: (575)885-2066 Email: Surface use plan certification: NO Surface use plan certification document: Surface access agreement or bond: Agreement Surface Access Agreement Need description: SUA in place Surface Access Bond BLM or Forest Service: **BLM Surface Access Bond number: USFS Surface access bond number:** Disturbance type: EXISTING ACCESS ROAD Describe: Surface Owner: OTHER Other surface owner description: Eddy County Road Dept. **BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office:** State Local Office: Military Local Office: **USFWS Local Office:** Other Local Office: **USFS** Region:

**USFS** Ranger District:

USFS Forest/Grassland:

Well Name: WESTLOVING 11/12 W0GH FED COM

Well Number: 3H

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

**NPS Local Office:** 

**State Local Office:** 

**Military Local Office:** 

**USFWS Local Office:** 

Other Local Office:

**USFS** Region:

**USFS** Forest/Grassland:

**USFS Ranger District:** 

NM 88220

Email:

Fee Owner Address: 1501 Mountain Shadow Dr. Carlsbad,

Fee Owner: Scott Branson

Phone: (575)885-2066

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: SUA in place

**Surface Access Bond BLM or Forest Service:** 

**BLM Surface Access Bond number:** 

**USFS Surface access bond number:** 

**Section 12 - Other Information** 

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

**ROW Applications** 

Page 10 of 11

Well Name: WESTLOVING 11/12 W0GH FED COM Well Number: 3H

SUPO Additional Information: NONE

Use a previously conducted onsite? YES

Previous Onsite information: JUN 13 2018 Met w/RRC Surveying & Bruce Madden (landowner) w/BC Operating & staked location @ 1370' FNL & 2435' FEL, Sec 11, T24S, R27E, Eddy Co., NM. (Elevation @ 3123'). Battery will be N of location off of incoming road & buried Sendero pipeline. Topsoil S. Reclaim 60 S, E, W. Approx. 100 of new road needed. Pad is 400 x460. Will need SUA w/BC Operating partnership. Will require BLM onsite for approval. Lat.: 32.23570826 N, Long.:-104.16076458. Battery Lat.: 32.23733330, Long.:-10416068481 W NAD83.

#### Other SUPO Attachment

 $We stloving 11\_12W0 GHFedCom 3H\_\_interim reclamation diagram\_20180727101931.pdf \\ We stloving 11\_12W0 GHFedCom 3H\_\_gascapture plan\_20180727101945.pdf$ 

9 11 T

# VICINITY MAP

NOT TO SCALE

BOUNDS RD.

Sec 35 T23S R27E Sec 36 T23S R27E Sec 31 T23S R28E Sec 32 T23S R28E Sec 33 T23S R28E.

LEASE RD.

CR-7.16

(HIGBY RD.)

Sec 2 T24S R27E Sec 12 T24S R27E Sec 6 T24S R28E Sec 5 T24S R28E Sec 4 T24S R28E

WEST LOVING 11/12 WOGH FEDERAL COM #3H

Sec 14 T24S R27E Sec 13 T24S R27E Sec 19 T24S R28E Sec 17 T24S R28E Sec 16 T24S R28E

Sec 23 T24S R27E Sec 13 T24S R27E Sec 19 T24S R28E Sec 17 T24S R28E Sec 16 T24S R28E

# SECTION 11, TWP. 24 SOUTH, RGE. 27 EAST, N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: Mewbourne Oil Company LOCATION: 1370' FNL & 2435' FEL

LEASE: West Loving 11/12 WOGH Federal Com ELEVATION: 3123'

WELL NO.: 3H

Copyright 2016 - All Rights Reserved

SCALE: N. T. S.

NO. REVISION DATE

JOB NO.: LS1806766

DWG. NO.: 1806766VM

308 W. BROADWAY ST.



308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

DATE: 6-12-18

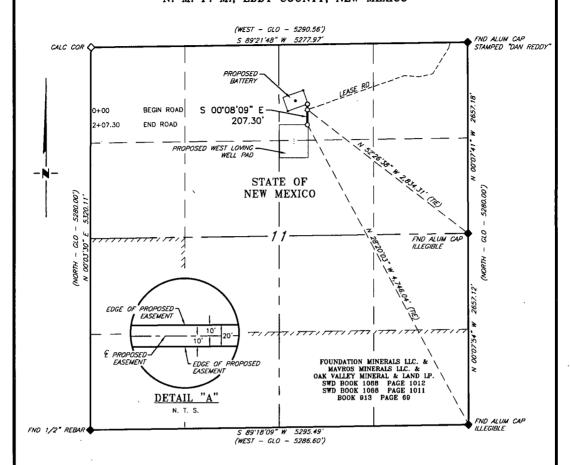
SURVEYED BY: ML/TF

DRAWN BY: GA

APPROVED BY: RMH

SHEET: 1 OF 1

#### MEWBOURNE OIL COMPANY PROPOSED ACCESS ROAD FOR THE WEST LOVING 11/12 FEDERAL COM WOBA #1H, WOGH #2H, & WOGH #3H SECTION 11, T24S, R27E N. M. P. M., EDDY COUNTY, NEW MEXICO



#### DESCRIPTION

A strip of land 20 feet wide, being 207.30 feet or 12.564 rods in length, lying in Section 11, Township 24, South, Range 27 East, N. M. P. M., Eddy County, New Mexico, being 10 feet left and 10 feet right of the following described survey of a centerline across State of New Mexico land:

BEGINNING at Engr. Sta. 0+00, a point in the Northeast quarter of Section 11, which bears, N 52°26'38" W, 2,834.31 feet from an aluminum cap, illegible, found for the East quarter corner of Section 11;

Thence S 00°08'09" E, 207.30 feet, to Engr. Sta. 2+07.30, the End of Survey, a point in the Northeast quarter of Section 11, which bears, N 28'20'03" W, 4,745.04 feet from an aluminum cap, illegible, found for the Southeast corner of Section 11.

Said strip of land contains 0.095 acres, more or less, and is allocated by forties as follows:

NW 1/4 NE 1/4

12.564 Rods

0.095 Acres



BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND.

LEGEND RECORD DATA - GLO CALCULATED CORNER FOUND MONUMENT AS NOTED

PROPOSED ACCESS ROAD

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Hobert M. Howell



Robert M. Howett NM PS 19680

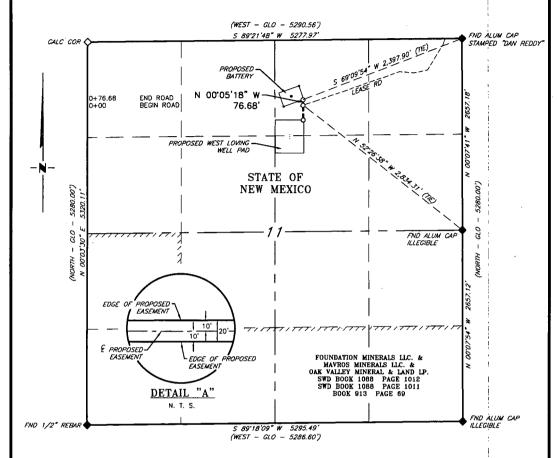
5.	REVISION	DATE	

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

Copyright 2016 - All Rights Reserve SCALE: 1" = 1000" DATE: 6-12-18 SURVEYED BY: ML/TF DRAWN BY: GA APPROVED BY: RMH SHEET: 1 OF 2

NO JOB NO.: LS1806764 DWG. NO.: 1806764RD

#### MEWBOURNE OIL COMPANY PROPOSED ACCESS ROAD FOR THE WEST LOVING 11/12 FEDERAL COM WOBA #1H, WOGH #2H, & WOGH #3H BATTERY **SECTION 11, T24S, R27E** N. M. P. M., EDDY COUNTY, NEW MEXICO



#### DESCRIPTION

A strip of land 20 feet wide, being 76.68 feet or 4.647 rods in length, lying in Section 11, Township 24, South, Range 27 East, N. M. P. M., Eddy County, New Mexico, being 10 feet left and 10 feet right of the following described survey of a centerline across State of New Mexico land:

BEGINNING at Engr. Sta. 0+00, a point in the Northeast quarter of Section 11, which bears, N 52°26'38" W, 2,834.31 feet from an aluminum cap, illegible, found for the East quarter corner of Section 11;

Thence N 00'05'18" W, 76.68 feet, to Engr. Sta. 0+76.68, the End of Survey, a point in the Northeast quarter of Section 11, which bears, S 69'09'54" W, 2,397.90 feet from an aluminum cap, stamped "Dan Reddy", found for the Northeast corner of Section 11.

Said strip of land contains 0.035 acres, more or less, and is allocated by forties as follows:

NW 1/4 NE 1/4

4.647 Rods

0.035 Acres

= 1000' 500' 1000

BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND.

> LEGEND RECORD DATA - GLO

CALCULATED CORNER FOUND MONUMENT AS NOTED PROPOSED ACCESS ROAD

OKERT OF PAT I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howet Robert M. Howett

NM PS 19680

Copyright 2016 - All Rights Reserve

PESIONAL.

REVISION DATE JOB NO.: LS1806764 DWG. NO.: 1806764RD2



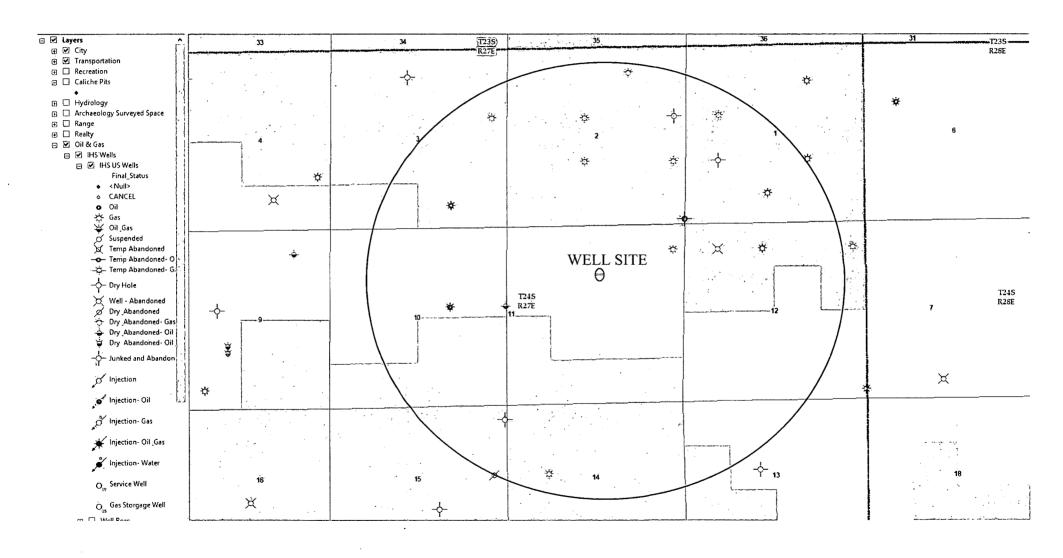
308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

	SCALE: 1" = 1000'
	DATE: 6-12-18
	SURVEYED BY: ML/TF
	DRAWN BY: GA
1	APPROVED BY: RMH
	SHEET: 2 OF 2

M. HOUR

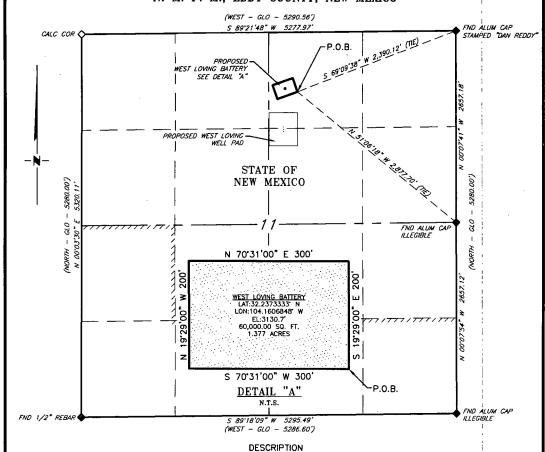
19880

# WEST LOVING 11/12 W0GH FEDERAL COM 3H EXISTING WELL MAP



#### MEWBOURNE OIL COMPANY PROPOSED WEST LOVING BATTERY SECTION 11, T24S, R27E

N. M. P. M., EDDY COUNTY, NEW MEXICO



A tract of land situated in the Northeast quarter, of Section 11, Township 24 South, Range 27 East, N. M. P. M. Eddy County, New Mexico, across State of New Mexico land, and being more particularly described by metes and

BEGINNING at a point which bears, N 51°06'18" W, 2,877.70 feet from an aluminum cap, illegible, found for the East quarter corner of Section 11 and being S 69°09'38" W, 2,390.12 feet from an aluminum cap, stamped "Dan Reddy", found for the Northeast corner of Section 11:

Thence S 70°31'00" W, 300.00 feet, to a point;

Thence N 19'29'00" W, 200.00 feet, to a point;

Thence N 70°31'00" E, 300.00 feet, to a point;

Thence S 19°29'00" E, 200.00 feet, to the Point of Beginning.

NW 1/4 NE1/4

Said tract of land contains 60,000.00 square feet or 1.377 acres, more or less, and is allocated by forties as

60,000.00 Sq Ft.

1" = 1000" 500' 1000

BEARINGS ARE GRID NAD 83 NW EAST DISTANCES ARE HORIZ. GROUND.

LEGEND RECORD DATA - GLO CALCULATED CORNER FOUND MONUMENT
AS NOTED
PROPOSED ACCESS ROAD I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my howledge and belief of my knowledge and belief.

Hobert M. Howell NM PS 19680 Robert M. Howett

M. HOWET OF RT SEW MEXIC 19880 RESSIONAL.

1.377 Acres

Copyright 2016 - All Rights Reserve

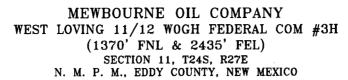
NO.	REVISION	DATE		
JOB NO.: LS1806764				
DWG. NO.: 1806764BT				

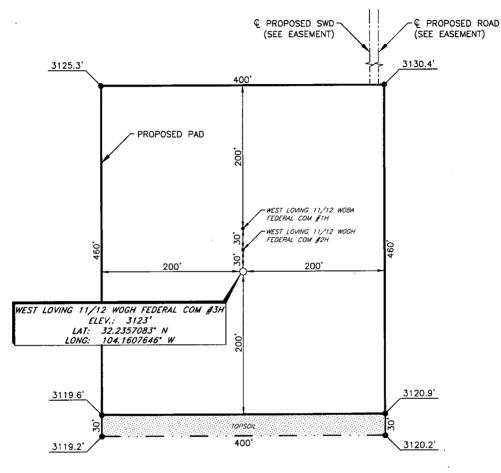


308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200 SCALE: 1" = 1000" DATE: 6-12-18 SURVEYED BY: ML/TF DRAWN BY: GA APPROVED BY: RMH SHEET: :1 OF 1

ws: Sist	SWSW	SESW	(SWSE	SESE ⊒Long 12 w27	SWSW	SESW	SWSE	SESE	L7	gew G
		NEWY	NWNE west West	Leving 12 WZE coving 10/Fed Com coving 11/Fed Com		ac ka ca ca a ka a c	SNIWNE W	a Malega 12 Sien a Malega 12 Sien	<b>NL1</b>	NENW
e Sene	SWNW	Senw	ASAMVIE ASAMVIE	SENE 2 wzeh sicom 2	III Weed Footing 15 W	SENW	SWINE	"SENE	42	Senw
i Wese	YNWSW.	720 SW	NWEE	Wese.	'NIWSW'	- NESW	12 10/05=	NESE Bestan 7 WOLLFC	La Costen 7 Will	NIESW Francisco
Sese	SWSW/	SESW	SWSE	SESE	wewe.	*GESW	SWSE	oston 7 WOMP Pec	24 Soc Sh 7 Wolds MIP Fee Milks Cread CM	For Callis ESW
NENE	\$NWMW	'GNENW)	NWINE		Sniminio	winein?	NMNE	er son ca Vinene	end PV	CNEWW
Gene	SWNW	Senw	(SWM)E	<b>VSENE</b>	SWMW	<b>S</b> ENW	<u>EWNEWat</u>	ar Source <u>ta</u>		SENW
							118			

Swee Sese	'Swsw 'Sesw	SWSE SESE	Swsw Sisw	SWSE	L7 Sesw Sw
NWWNE NIENE	NEW Celiche©curce	Washed Council Street Com 21 West Council 10 Test Com 21 West Council 11 Led Com 21	NIMNM State W.S. GER COM WILL 2009 C.T.	NWNE West Waters 12 Step	OLA NIBNW SAW
Wine Sene	SWNW SENW	SWINE SENE	SWNW SENW	Swine 'Sene,	Senw S
vse viese	1720 Sniwswi sniesw	NESE NESE	Signature of the second of the	NWSE Beston 7 WILL Fo	LS (NESW) (
	(Sesw	Swse. Sese	GESW GESW		2011 Page Can 7. WICKIP From Calling ISSW
SESE	SWSW, SESW	ewes. Justin		Besten 7 W Besten Go By san Ca	ZEMP FEED ENTRY
(NENE	'NWAWA' (NIENW)	NAME SIENE		NAME NEW	AL 1 SNENW
Sine	Swinwi Senwi	Swne Sene	SINW SINW	SWINE Water Source	Cl2: Senw





#### DIRECTIONS TO LOCATION

From the intersection of CR-716 (Higby Hole Rd.) and CR-763 (Bonds Rd.)

Go West on CR-763 approx. 2.1 miles to a lease road on the left;

Turn left and go South approx. 2.0 miles;

Turn right and go Southwest approx. 0.2 miles;

Turn right and go West approx. 0.4 miles to a proposed road on the left;

Turn left and go South approx. 207 feet to location.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Howett Hobert M.

Robert M. Howett NM PS 19680

REVISION DATE JOB NO.: LS1806766

BEARINGS ARE NAD 83 GRID - NM EAST DISTANCES ARE GROUND

DWG. NO.: 1806766PAD

(575) 964-8200 308 W. BROADWAY ST., HOBBS, NM 88240

GOODAL SUR Copyright 2016 - All Rights Reserve

SCALE: 1" = 100' DATE: 6-12-18 SURVEYED BY: ML/TF DRAWN BY: GA APPROVED BY: RMH SHEET: 1 OF 1



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

# PWD Data Report

#### Section 1 - General

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

#### **Section 2 - Lined Pits**

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

**Lined pit Monitor description:** 

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

# Section 3 - Unlined Pits

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? NO

Produced water Disposal (PWD) Location.	
PWD surface owner:	PWD disturbance (acres):
Unlined pit PWD on or off channel:	
Unlined pit PWD discharge volume (bbl/day):	
Unlined pit specifications:	
Precipitated solids disposal:	
Decribe precipitated solids disposal:	`
Precipitated solids disposal permit:	
Unlined pit precipitated solids disposal schedule:	
Unlined pit precipitated solids disposal schedule attachme	nt:
Unlined pit reclamation description:	
Unlined pit reclamation attachment:	
Unlined pit Monitor description:	
Unlined pit Monitor attachment:	
Do you propose to put the produced water to beneficial use	e?
Beneficial use user confirmation:	
Estimated depth of the shallowest aquifer (feet):	
Does the produced water have an annual average Total Disthat of the existing water to be protected?	solved Solids (TDS) concentration equal to or less than
TDS lab results:	
Geologic and hydrologic evidence:	
State authorization:	
Unlined Produced Water Pit Estimated percolation:	
Unlined pit: do you have a reclamation bond for the pit?	
Is the reclamation bond a rider under the BLM bond?	
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
Would you like to utilize Injection PWD options? NO	
Trouid you like to dulize injection i Tro options: NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	

Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	•
UIC Permit attachment:	
Section 5 - Surface Discharge Would you like to utilize Surface Discharge PWD options? NO	)
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Surface discharge PWD discharge volume (bbl/day):	,
Surface Discharge NPDES Permit?	
Surface Discharge NPDES Permit attachment:	
Surface Discharge site facilities information:	
Surface discharge site facilities map:	
Section 6 - Other	
Would you like to utilize Other PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Other PWD discharge volume (bbl/day):	
Other PWD type description:	
Other PWD type attachment:	

Have other regulatory requirements been met?
Other regulatory requirements attachment:



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

# Bond Info Data Report

#### **Bond Information**

Federal/Indian APD: FED

**BLM Bond number: NM1693** 

**BIA Bond number:** 

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

**BLM** reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: