10 2013       DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT       OCD Artesia       5. Lease Serial No. 6/4 L4333 (SL), NM 17446-A (BHL), NM 0556277.         A. Type of work:       DRILL       REENTER       6. If Indian, Allotee or Tribe Name         Ia. Type of work:       DRILL       REENTER       7. If Unit or CA Agreement, Name and No.         Ib. Type of work:       OIL       Gas Well       Other       Single Zone       Multiple Zone         2. Name of Operator Mewbourne Oil Company       YIT Y HAD       30 D 25 - HY 2061       YIS Fed Well:       Single Zone       30 D 25 - HY 2061         3a. Address PO Box 5270 Hobbs, NM 88241       575-393-5905       Hote Proceedings of the Mol, or Exploratory West of the Xande Well No.       30 D 25 - HY 2061       Yest of Xande Well No.         4. Location of Well (Report location clearly and in accordance with any Star requirements.') At surface 2310' FSL & 150' FWL, Sec. 21 T23S R34E       11. Sec., T. R. M. or Bik and Survey or Area         3. Dorde ford zone 1650' FSL & 330' FEL, Sec. 21 T23S R34E       11. Sec. 71. R. M. or Bik and Survey or Area         3. Distance from proposed foctation*       160'       17. Spacing Unit dedicated to this well         1. Sistance from proposed foctation*       160'       11. Sec. 71. R. M. or Bik and Survey or Area         1. Sistance from proposed foctation*       160' FSL & 300' FEL, Sec. 21 T23S R34E       11. Sec. 71. R. M. or Bik and Survey or Ar	Form 3160-3 (August:2007) CD HOUTED STATES	OMB	A APPROVED No. 1004-0137 s July 31, 2010	13-464				
Control of the second sec	DEPARTMENT OF THE			IĽ), NM <b>0556297.</b>				
10.       Type of welt:       [] DKIL       [] KENTER         10.       Type of welt:       [] OKUL       [] Got Welt	APPLICATION FOR PERMIT TO	6. If Indian, Allot	ee or Tribe Nar	ne				
1b. Type of Well:       C of Well       C as Well       Other       Single Zone       Multiple Zuee       Wildcat 21 LTPG Com #H         2       Name of Operator Manubourne OI Company       A 14 T 440       30       Address PC Box 5270       150       Phase No. indust and Pool, of Exploration Value Planmone       10       Field Planmone       10		FR	ζ. 		7. If Unit or CA A	greement, Name	and No.	
1b. Type of Well: Yell Well Gas Well Other Single Zone Multiple Zone Wildest 21 LF de Con #14 2. Name of Operator Membourne Oil Company 3. Address PO Box 5270 Box 527 Box 528 Box 528 Box 528 Box 528 Box 52 Box 528 Box 528 Box 52 Box 528 Box 528 Box 52 Box 528 Box 52 Box					8. Lease Name an	d Well No.	<b>रम्</b> १००२५२	
3a. Address PO Box 5270 Hobbs, NM 82241       3b. Phase Ma finited area code (57.393.9005       3b. Phase Ma finited area code (57.393.9005       3b. Phase Ma finited area code (50.4005)       3b. Phase Ma finited area for (50.4005)       3b. Phase Ma finited ar		✓ Si	ingle Zone Multij	ple Zone	· · · · · · · · · · · · · · · · · · ·	d Com #1H		
3a. Address pop Box 5270 Hobbs, NM B8241       3b. Phone Mc, include area?code/ 575-393-5605       10 Field and Pool, or Explorator U/GEPT Antelope Ridge Bone Spring (325644/ Antelope Ridge Bone Spring (32564/ NM         11 Stearc from propert 20 miles NW of Jal, NM       12. Curuly or Parith In Stearc in measer Will, drilling, completed In across (spring High Gron Ridge Bone Adv (72213)       13. State Intel Stearc from propert (St.)+160         12 Distance from proped (station')       150       Intel Stearc High High High High High High High High	2. Name of Operator Mewbourne Oil Company	$\leq $	4744			15_41	261	
Hobbs, NM 88241       [575-393-5905]       Antelope Ridge Bone Spring (235-547 2 2007)         4. Lectin of Well (Ropert location clearly and accordance with any Star reparament.)       11. Sec. 7. R. M. or Bik and Survey or Area         An proposed pred. zone 1650' FSL & 330' FEL, Sec. 21 T23S R34E       Unit L         Jamma Form proposed pred. zone 1650' FSL & 330' FEL, Sec. 21 T23S R34E       Unit L         20 miles NVO Jak, NM       12. County or Parish       13. State         20 miles NVO Jak, NM       13. State       NM         13. Diame from proposed fig. unit leng, fig. may       (b, No, of series in lease       17. Specing Unit decleated to this well         14. Distance from proposed fig. unit leng, fig. may       (b, No, of series in lease       17. Specing Unit decleated to this well         13. Diame from proposed fig. unit leng, fig. and       (b, No, of series in lease       17. Specing Unit decleated to this well         14. Bota nearest       more Specing Unit decleated to this well       18. Well shate       18. Well shate         13. Diame from proposed leasting *       160. That S (MD)       NM 1693 NationWole, NMB-000919         11. Lea       11.446 (TVD)       14. He 20 above,       23. Estimated duration         24. Attachments       14. Bond to cover the operations unless covered by an existing band on file (see       16. Socio Other No.1, must be attached to this form:         1. Well plat centified by a	3a. Address PO Box 5270				10. Field and Pool, o	or Exploratory	Voet -	
At surface 2310 FSL & 150 FWL, Sec. 21 T23S R34E       Mait L       Sec. 21 T23S R34E         At surface 2310 FSL & 150 FWL, Sec. 21 T23S R34E       Uait L       Sec. 21 T23S R34E         41. Distance in miles and direction from nearest town or pad office*       L2       Commy or Parith       IS. State         20 miles XW of Jal, NM       13       State from proposed for of Jal, NM       IS. State       NM         13       Distance from proposed figure in the state of the	Hobbs, NM 88241	<u> </u>			Antelope Ridge E	Bone Spring (	395647 L 2209	
Af proposed prod. zone 1650° FSL & 330° FEL, Soc. 21 T23S R34E <u>(A, F, G, G, G, C, C,</u>		· . • ·			-		or Area	
14. Distance in miles and direction from nearest town or post office*       12. County or Purish       13. State         20. miles NW of Jal, NM       150*       150*       160*       17. Spacing Unit M deficited to this well         13. Distance form proposed (action) proposed (action)       150°       160*       180       180         14. Distance for miles lase, fill       150°       160*       180       180         14. Distance form proposed (action)       150°       160*       180       180         15. Distance form proposed (action)       150°       160*       180       180         14. Distance form this lase, fill       19. Proposed Depth       180       180       180         15. Distance form this lase, fill       19. Proposed Depth       160       180       180         11. 44. Or (VD)       20. BLM/BLA Bond No. on file       NME-000919       21.         12. Elevations (Show whether DF, KDB, RT, GL, etc.)       22. Approximate date work will start*       23. Estimated duration       60 days         24. Attachments       3498°       .       .       80 do cover the operations unless covered by an existing bond on file (see         15. Signature       A strafe USP file (blocation is on National Forest System Lands, the SUP       .       .       Bond to cover the operations unless covered by an existing bond			L –		Sec. 21 1235 R3	4E		
20 miles NW of Jal, NM     Lea     NM       15 Distance from proposed field property or lease line, it applied for, on this lease, it.     16, No. of acres in lease (BHL-00 property or lease line, it applied for, on this lease, it.     17. Spacing Unit dedicated to this well to acation to nearest property or lease line, it applied for, on this lease, it.     180       18. Distance from proposed location* property or lease line, it applied for, on this lease, it.     19. Proposed Depth 16,114.5 (MD) 11,144 (TVD)     20. BL/MBL Bond No. on file NM 1693 Nationwide, NMB-000019       21. Elevations (Show whether DF, KDB, RT, GL, etc.)     22. Approximate date work will start* 24. Attachments     23. Estimated duration 60 days       24. Bill conflicted by a registered surveyor.     24. Attachments     19. Proposed Depth 11,444 (TVD)     10. Bond to cover the operations unless covered by an existing bond on file (see tem 20 above).       3. Surface Use Plan (if the location is on National Forest System Lands, the SUPCo must be filed with the appropriate Forest Service Office).     19. Proposed Depth 10. Bond to cover the operations unless covered by an existing bond on file (see tem 20 above).       23. Signature     Mane (Printed/Typed) Bradley Bishop     Date 02 - 25 · 20/3       Title     FIELD MANAGER     Name (Printed/Typed) Bradley Bishop     Date 02 - 25 · 20/3       Title     FIELD MANAGER     Approval does not warran to certify that the applicant holds legal or equitable title to those rights in the subject/ease which would entitle the applicant to 0. Carlsbad Controlled With applicant to dependention of property file for any matter Within is		3S R34E	lni+I		12 County or Parish		State	
15. Distance from proposed*       150°         16. No. of acres in lease       17. Spacing Unit dedicated to this well         17. Spacing Unit dedicated to this well       160         18. Distance from proposed leasins*       150°         19. Proposed Depth       160         20. BLM/BLA Bond Na. on file       160         21. Elevations (Show whether DF, KDB, RT, GL, etc.)       22. Approximate date work will start*       23. Estimated duration         24.90°       24. Attachments       60 days         24. Attachments       60 days         24. Starte Use Plan (if the location is on National Forest System Lands, the BUM on over the operation and/or plans as may be required by the BUM       9. Postarter Starte Use Plan (if the location is on National Forest System Lands, the BUM       16. Once over the operation and/or plans as may be required by the BUM         25. Signature       Surface Use Plan (if the location is on National Forest System Lands, the BUM       17. Spacing MacDonell       Date         25. Signature       Signature       Name (Printed Typerfs/George MacDonell       Date       0. Partar certification         25. Signature       Signature       Name (Printed Typerfs/George MacDonell       Date       0. Partar certification         26. Signature       Is/George MacDonell       Name (Printed Typerfs/George MacDonell       Date       0. Partar certification <td< td=""><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td></td<>					•			
Botates in a fragment       (BF) Floo         Property of last line, if any)       (BF) Floo         B Distance from proposed location*       1550° - Wildcat Energy         B Distance from proposed location*       1550° - Wildcat Energy         B Distance from from proposed location*       1550° - Wildcat Energy         applied for, on this less, it.       190         21. Elevations (Show whether DF, KDB, RT, GL, etc.)       22. Approximate date work will star*       [23. Estimated duration         3498       24. Attachments       [24. Attachments         The following, completed in accordance with the requirements of Onshore Oil and Cas Order No.1, must be attached to this form:       [4. Bond to cover the operations unless covered by an existing bond on file (see line 20 above).         3. A Surface Use Plan (if the location is on National Forest System Lands, the BUPO must file thick of the propriate Forest Service Office).       [4. Bond to cover the operations and/or plans as may be required by the BLM.         25. Signature       Mand (PrintedT)pred / George MacDonell       [Amere (PrintedT)pred / George MacDonell       [Date Og 25 20/3         Title       FIELD MANAGER       [Office       CARLSBAD FIELD OFFICE       [Date Og 25 20/3         Title       FIELD MANAGER       [Office       CARLSBAD FIELD OFFICE       [Date Og 25 20/3         Title       FIELD MANAGER       [Office       CARLSBAD FIELD OFFICE	15 Distance from proposed* 150	16. No. of	acres in lease	17. Spacir	ng Unit dedicated to thi	is well		
Also is one areast drig, unit line, if any)       Distance from proposed location*       10         18. Distance from proposed location*       10       Proposed Depth       20. BLMBIA Bond No. on file         19. Proposed Depth       10. Proposed Depth       20. BLMBIA Bond No. on file       MM 6930 Nationwide, NMB-000919         11.448 (TVD)       11.448 (TVD)       MM 16930 Nationwide, NMB-000919         11.448 (TVD)       23. Estimated duration       60 days         24. Attachments       24. Attachments         The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:       4. Bond to cover the operations unless covered by an existing bond on file (see Iben 2)         3. A surface Use Plan.       4. Bond to cover the operations unless covered by an existing bond on file (see Iben 2)         5. Signature       4. Bond to cover the operations unless covered by an existing bond on file (see Iben 2)         5. Signature       Name (PrintedTyped)       Date         7. George MacDonell       Name (PrintedTyped)       Date         7. Diffice       Office       CARLISBAD FIELD OFFICE         Approved by (Signature)       /s/George MacDonell       Name (PrintedTyped)/Secorge MacDonell       Date         7. Bit       FIELD MANAGER       Office       CARLISBAD FIELD OFFICE         Approved by (Signature)       <	property or lease line. ft.			100				
In one access well, drilling, completed, Antebellum #1       114.5 (MD)         114.48 (TVD)       114.48 (TVD)         12. Elevations (Show whether DF, KDB, RT, GL, etc.)       12.4proximate date work will start*       12.5 Estimated duration         3498'       24. Attachments         The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:       60 days         3. Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).       1. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).         3. Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).       1. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).         3. Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).       1. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).         3. Surface Use Plan (if the location is on National Forest System Lands, the SUM       1. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).         3. Surface Use Plan (if the location proved by Signature)       Name (PrintedTyped)       Date         3. Surface Use Plan (if the location thereon.       Control (PrintedTyped)       Date         3. Surface Use Plan (if		NW OSS62			DIA Dand No. an file	<u> </u>		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)       22. Approximate date work will start*       23. Estimated duration         3496'       24. Attachments         The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:         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).       8. Bond to cover the operations unless covered by an existing bond on file (see Is. Such other site specific information and/or plans as may be required by the Bitm 20 above).         25. Signature       Name (PrintedTyped)       Date         26. Supported by (Signature)       Is/George MacDonell       Name (PrintedTyped)       Date         71/14       FIELD MANAGER       Office       CARLSBAD FIELD OFFICE       Approved by (Signature)       Is/George MacDonell       Date         71/14       FIELD MANAGER       Office       CARLSBAD FIELD OFFICE       Date       JUN 2 6 2013         Approved by (Signature)         71/16       FIELD MANAGER       Office       CARLSBAD FIELD OFFICE         Approved to so not warrant or certify that the applicant holds legal or equitable title to those rights in the subjectlease which would entitle the applicant to conduct operations thereon.         Condition	<ol> <li>Distance from proposed location* 1650' - Wildcat Energy to nearest well, drilling, completed, Aptoballym #1</li> </ol>	•	•	1				
3498'       04/01/2013       60 days         24. Attachments         The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:         1. Well plat certified by a registered surveyor.         2. A Dilling 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. Signature         25. Signature         Mandel Use Plan (if the location is on National Forest Service Office)         Name (Printed/Typed)         Date         C2 - 25 - 2013         Title         Approved by (Signature)         /s/George MacDonell         Name (Printed/Typed)         Date         Office         CARLSBAD FIELD OFFICE         Application approval does not warrant or certify that the applicant holds legal or cautable title to those rights in the subject lease which would entitle the applicant to conduct operations fateron.         Conduction operations of approval, if any, are attached.         Title KUSC. 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.         (Continued on page 2)       Carlsbad Contificiii Warter Basin fully		11,448 (T	VD)					
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<ul> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>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).</li> <li>4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).</li> <li>5. Operator certification</li> <li>6. Such other site specific information and/or plans as may be required by the BLM.</li> <li>25. Signature Buddy Bishop Date C2 - 25 - 2013</li> <li>7. Title Particular Proved by (Signature) / S/George MacDonell Office CARLSBAD FIELD OFFICE</li> <li>Approved by (Signature) / S/George MacDonell Office CARLSBAD FIELD OFFICE</li> <li>Application so 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 of approval does not warrant or representations as to any matter within its jurisdiction.</li> <li>7. Title B USC. Section 1001 and Title 43 USC. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any faise, fictitious of representations as to any matter within its jurisdiction.</li> <li>7. Continued on page 2)</li> </ul>					· · · · · · · · · · · · · · · · · · ·			
2. A Drilling Plan.       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).       Item 20 above).         5. Operator certification       6. Such other site specific information and/or plans as may be required by the BLM.         25. Signature       Name (Printed/Typed) Bradley Bishop       Date C2 - 25 - 2013         7.tite       Name (Printed/Typed) Bradley Bishop       Date C2 - 25 - 2013         Approved by (Signature)       /s/George MacDonell       Name (Printed/Typed) Bradley Bishop       Date C2 - 25 - 2013         Title       FIELD MANAGER       Office CARLSBAD FIELD OFFICE       Date JUN 2 6 2013         Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subjectlease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.       APPROVAL FOR TWO YEARS         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.       Carlsbad Controlled Watter Ba3sin         (Continued on page 2)       Carlsbad Controlled Watter Ba3sin       JUL 01 2013	The following, completed in accordance with the requirements of Onshor	re Oil and Gas	Order No.1, must be at	tached to th	is form:			
2. 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         2.5. Signature       Signature       Such other site specific information and/or plans as may be required by the BLM.         2.5. Signature       Name (Printed/Typed) Bradley Bishop       Date 02 - 25 - 2013         Approved by (Signature)       /s/George MacDonell       Name (Printed/Typed) Bradley Bishop       Date 02 - 25 - 2013         Title       FIELD MANAGER       Office CARLSBAD FIELD OFFICE       Date JUN 2 6 2013         Approved by (Signature)       /s/George MacDonell       Date JUN 2 6 2013         Title       FIELD MANAGER       Office CARLSBAD FIELD OFFICE       Date JUN 2 6 2013         Title       FIELD MANAGER       Office CARLSBAD FIELD OFFICE       Date JUN 2 6 2013         Title B U.S.C. Section 1001 and Tile 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.       Carlsbad Controlled Watter Ba3Sin         (Continued on page 2)       Carlsbad Controlled Watter Ba3Sin	1. Well plat certified by a registered surveyor.			he operatio	ns unless covered by a	an existing bond	l on file (see	
25. Signature       Name (Printed/Typed) Bradley Bishop       Date 02 - 25 - 2013         Approved by (Signature)       /s/George MacDonell       Name (Printed/Typed)/s/George MacDonell       Date 02 - 25 - 2013         Approved by (Signature)       /s/George MacDonell       Date 02 - 25 - 2013         Title       Name (Printed/Typed)/s/George MacDonell       Date 02 - 25 - 2013         Title       FIELD MANAGER       Office CARLSBAD FIELD OFFICE         Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.       APPROVAL FOR TWO YEARS         Title B USC. 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.       Carlsbad Controlled Watter Ba3sin         (Continued on page 2)       Carlsbad Controlled Watter Ba3sin	-	Lands, the	· · · · · · · · · · · · · · · · · · ·	ation				
25. Signature       Name (Printed/Typed) Bradley Bishop       Date       Date         Title       Mame (Printed/Typed) Bradley Bishop       Date       Date       Date         Approved by (Signature)       /s/George MacDonell       Name (Printed/Typed) /s/George MacDonell       Date       Date         Title       FIELD MANAGER       Office       CARLSBAD FIELD OFFICE       Date       JUN 2 6 2013         Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subjectlease which would entitle the applicant to conduct operations thereon.       APPROVAL FOR TWO YEARS         Conditions of approval, if any, are attached.       APPROVAL FOR TWO YEARS         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.       Carlsbad Controlled Watter Basin         (Continued on page 2)       Carlsbad Controlled Watter Basin				specific inf	ormation and/or plans	as may be requi	ired by the	
Bradley Bishop       Egg - 25 - 25 - 2013         Title       Approved by (Signature)       /s/George MacDonell       Name (Printed/Typed)       Date       Date       JUN 2 6 2013         Title       FIELD MANAGER       Office       CARLSBAD FIELD OFFICE       Date       JUN 2 6 2013         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.       APPROVAL FOR TWO YEARS         Conditions of approval, if any, are attached.       APPROVAL FOR TWO YEARS         Title IS US.C. Section 1001 and Title 43 US.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.         (Continued on page 2)       Carisbad Controlled Water Basin         Image: Provide the output of the total 2013       JUL 01 2013	25. Signature	Name			Date			
Approved by (Signature)       /s/George MacDonell       Name (Printed/Typed)s/George MacDonell       Date JUN 2 6 2013         Title       FIELD MANAGER       Office CARLSBAD FIELD OFFICE       Date JUN 2 6 2013         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.       APPROVAL FOR TWO YEARS         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.       Carlsbad Controlled Water Bassin         (Continued on page 2)       Carlsbad Controlled Water Bassin	- Gradlung Bishap				02-2	25 2013		
Title       Office         Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.         Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.         (Continued on page 2)       Carlsbad Controlled VValter Bassin         Image: Control Controlled VValter Bassin         JUL 01 2013       JUL 01 2013	Title							
Title       Office         Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.         Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.         (Continued on page 2)       Carlsbad Controlled VValter Bassin         Image: Control Controlled VValter Bassin         JUL 01 2013       JUL 01 2013	Approved by (Sienature)	Name	(Printed/Typed)			Date		
FIELD MANAGER       CARLSBAD FIELD OFFICE         Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.       APPROVAL FOR TWO YEARS         Conditions of approval, if any, are attached.       APPROVAL FOR TWO YEARS         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.         (Continued on page 2)       Carisbad Controlled Vater Basin         *(Instruction Vater Basin         JUL 01 2013       JUL 01 2013	/s/George MacDonell	Tunio	(i''''''''''''''''''''''''''''''''''''	eorge N	lacDonell	JUN	2 6 2013	
conduct operations thereon. Conditions of approval, if any, are attached.       APPROVAL FOR TWO YEARS         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.         (Continued on page 2)       Carlsbad Controlled Water Basin         Image: Provide the provided of the provid	Title FIELD MANAGER	Office		LD OFFI	ICE			
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. (Continued on page 2) RECEIVED JUL 01 2013 JUL 01 2013		ls legal or equi	table title to those righ					
(Continued on page 2) RECEIVED JUL 01 2013 Carisbad Controlled Water Basin				Ą	PPROVAL F	ORTWO	YEARS	
JUL 01 2013	Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a ci	rime for any p to any matter v	erson knowingly and v vithin its jurisdiction.	villfully to n	nake to any department	t or agency of th	ne United	
JUL 01 2013				Ca	risbad Contr	diled wa	ter Basin	
JUL 01 2013	RE	CEIV	EU	1/				
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SEE ATTACHED FOR CONDITIONS OF APPROVAL

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Approval Subject to General Requirements & Special Stipulations Attached

# JUL 16 2013

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Drilling Program Mewbourne Oil Company Wildcat 21 LI Fed Com #1H 2310' FSL & 150' FWL (SHL) Sec 21-T23S-R34E Lea County, New Mexico

#### 1. The estimated tops of geological markers are as follows:

Rustler Top Salt Base Salt Top of Castile Yates Seven Rivers Queen Capitan Grayburg San Andres Glorieta Yeso Base of Castile *Lamar/Delaware Bone Spring Sand	970' 1220' 2850' 2850' NP NP NP NP NP NP NP NP 5080' 5080' 5080' 5080' 5080' 5080'
2 <sup>nd</sup> Bone Spring Sand *3 <sup>rd</sup> Bone Spring Sand	10280' 11240'
Wolfcamp	Will not penetrate.

#### 2. Estimated depths of anticipated fresh water, oil, or gas:

Water	Fresh water is anticipated @ 300' & will be protected by setting surface
	casing at 995' and cementing to surface.
Hydrocarbons	Oil and gas are anticipated in the above (*) formations. These zones will
	be protected by casing as necessary.

#### 3. Pressure control equipment:

A 2000# WP annular will be installed after running 13 %" casing. A 3000# WP double ram BOP and 3000# WP Annular will be installed after running 9 %" & 7" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOPs will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use.

Will test the 13  $\frac{3}{6}$ " annular to 1500# and the 9  $\frac{5}{6}$ " & 7" BOPE to 3000# and annular to 1500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1<sup>st</sup> test as per BLM Onshore Oil and Gas Order #2.

4.

MOC proposes to drill a vertical wellbore to 11,000' & kick off to horizontal @11,478' TVD. The well will be drilled to16,115' MD (11,448' TVD). See attached directional plan.

Drilling Program Mewbourne Oil Company Wildcat 21 LI Fed Com #1H Page 2

### 5. Proposed casing and cementing program:

	A. Casi	ng Program:	-			
	<u>Hole Size</u>	Casing	<u>Wt/Ft.</u>	<u>Grade</u>	<u>Depth</u>	<u>Jt Type</u>
	17 ½"	13 ¾" (new)	48#	H40	0'-995' 1035	ST&C
٥	12 ¼ "	9 5/8" (new)	36#	J55	0' - 3300' MD	LT&C
	12 ¼ "	9 5/8" (new)	40#	J55	3300' - 4300' MD 🕁 '	LT&C
JUNA	12 ¼ "	9 5/8" (new)	40#	N80	3300' - 4300' MD 4300' - 4800' MD つ	LT&C
$\mathcal{O}$	8 ¾"	7" (new)	26#	P110	0'-11000' MD	LT&C
	8 ¾"	7" (new)	26#	P110	11000'-11750' MD	BT&C
	6 1/8"	4 ½" (new)	13.5#	P110	11550'-TD' MD	LT&C
B.41		an fastara, Callan	1 105 D.	ent 1 0 Tamaila ai	hun marth 10	

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8. \*Subject to availability of casing.

### **B. Cementing Program:**

- i. 13<sup>3</sup> Surface Casing: 550 sks Class "C" lite cement w/ salt. Yield at 2.15 cuft/sk. 200 sks Class "C" cement w/ 1% CaCl2. Yield at 1.34 cuft/sk. Cmt circulated to
- ii. 95/8 Intermediate Casing: 775 sacks Class "C" light cement w/ salt & LCM additives. Yield at 2.10 cuft/sk. 200 sacks Class "C" cement w/ 2% CaCl2. Yield at 1.34 cuft/sk. Cmt circulated to surface w/ 25% excess.
- iii  $7^{||}$  Production Casing: 450 sacks \*Lite "C" (60:40:0) cement w/salt and fluid loss additives. Yield at 2.12 cuft/sk. 400 sacks Class "H" cement w/ salt & FLA additives. Yield at 1.18 cuft/sk. Cmt calculated to tieback 200' into intermediate casing @ 4600' w/25% excess

iv.  $4\frac{1}{2}$  casing @ 4600' w/25% excess. iv.  $4\frac{1}{2}$  <u>Production Liner</u>: This will be a Packer/Port completion from TD up inside 7" casing with packer type liner hanger.

\*Referring to above blends of light cement: (wt% fly ash : wt% cement : wt% bentonite of the total of first two numbers). Generic names of additives are used since the availability of specific company and products are unknown at this time.

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#### 6. Mud Program:

Interval	Type System	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0' - 995' 1085	FW spud mud	8.6-9.0	32-34	NA
995 - 4800 5050	Brine water	10.0-10.2	28-30	NA
4800 <sup>°</sup> - 11000' (KOP)	FW	8.5-8.7	28-30	15
11000' - TD	FW w/Polymer .	8.5-8.7	32-35	15

\*\*Visual mud monitoring system shall be in place to detect volume changes indicating loss or gain of circulation fluid volume. Sufficient mud materials will be kept on location at all times to combat abnormal conditions. 

7. Evaluation Program:

Samples:	10' samples from surface casing to TD	
Logging:	GR, CN & Gyro from KOP -100' (10,900') to surface.	GR from 10,900' to
	TD	

8. Downhole Conditions

Zones of abnormal pressure: Zones of lost circulation: Maximum bottom hole temperature: Maximum bottom hole pressure: None anticipated Anticipated in surface and intermediate holes 120 degree F 8.3 lbs/gal gradient or less (.43368 x 11,478' = 4978 psi)

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Drilling Program Mewbourne Oil Company Wildcat 21 LI Fed Com #1H Page 3

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### 9. Anticipated Starting Date:

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Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 40 days involved in drilling operations and an additional 10 days involved in completion operations on the project.

# Mewbourne Oil Co

Lea County, New Mexico (Nad 83) Sec 21, T23S, R34E Wildcat 21 LI Fed Com #1H

Wellbore #1

Plan: Design #1

# **DDC Well Planning Report**

21 February, 2013



# DDC Well Planning Report

Database Company, Project: Sité: Well: Wellbore: Dësign:	Mewbol Lea Col Sec 21	1911-1961 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1	xo (Nad 83)	TVD Re MD Rei North F	o-ordinate R iference: lerence: Reference: Calculation (		Well Wildcat 21 WELL @ 3518 ( WELL @ 3518 ( Grid Mihimum Curva	Dusft (Patterson)
Project		nty, New Mexico	o (Nad 83)		THE REAL			
Map System: Geo Datum: Map Zone:	North Ame	Plane 1983 rican Datum 19 co Eastern Zone		System	Datum:	Ν	lean Sea Level	
Site	Sec 21,	23S, R34E		a anti-term		l de la companya de La companya de la com	i Alegonalis, Las nemeri altri di ju la scriptori a scriptori di tradicionali	
Site Position:			Northing:	469	,988.70 usft	Latitude:		32° 17 <sup>′</sup> 21.155 N
From:	Мар	0.0	Easting:	804	,086.10 usft	Longitude		103° 28' 59.010 W
Position Uncertai	inty:	0.0 usft	Slot Radius:		13-3/16 "	Grid Conv	ergence:	0.45 °
Well	Wildcat 2	1 LI Fed Comi	NHH-FERENSES SAN	n hiterotetten		e e suites	(2912), (Altonomic 1917), (Alt	
Well Position	+N/-S	0.0 ust	t Northing:		469,988.70	usft La	titudə:	32° 17' 21.155 N
	+E/-W	0.0 ust			804,086.10	usft Lo	ongitude:	103° 28' 59.010 W
Position Uncertai	inty	0.0 ust	t Wellhead	Elevation:		G	round Level:	3,498.0 usft
Wellbore	Vellbore	#1.57				arasta.		
Magnetics		Name GRF2010	Sample Date 2/21/201		nation ) 7.34	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>Angle)</b> (°) 60.22	Field Strength (nT) 48,496
Design	(UDSSIGN#	estimate whether					1	
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Version:			Phase:	PLAN	ті	ə On Depth:	0.	0
Vertical Section:	Contraction of the second	Depth)	From (ITVD): 2	+N/-S		/W	Direc	tion
			usft)	(usft)		sft)	the second s	
			0.0	0.0		).0	97.3	39
The second s	Ination Az (°)	Veri zimuth De	ical,	2	Dogleg Rate	Bulld Rate (?/100usft)	Turn Ratə (1/100usft)	TFO (°) Target
0.0	0.00	0.00		0.0 0.0		0.00		0.00
11,000.5	0.00			0.0 0.0		0.00		0.00
11,753.8 16,114.5	90.39 90.39		,478.0 -6 ,448.0 -62	1.9 476.7 2.9 4,801.1		12.00 0.00		97.39 0.00 PBHL Wildcat 21 Ll
10,114.0	30.39	97.59 II			0.00	0.00	0.00	

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**DDC** Well Planning Report

atabase: ompany: roject: lte: /ell: /ellbore: esign:	EDM 500011S Mewbourne O Lea County N Sec 21: T23S Wildcat 21:L1 Wellbore #1 Design #1	il:Co ew Mexico ( R34E	Nad <sup>®</sup> 83)	TVD, F MD Ro North	Co-ordinate teference: eference: Reference: y Calculation		WELL @ 351	21 LI Fed Con 18.0usft (Patter 18.0usft (Patter Nature	son)
Planned!Survey Measured Depth (usft)	Incilnation (°)	Ażlmuth: (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W- (usft)	Vertical Section (usft)	Doğleği Rate (?/100usft). (	Build Rate ?/100ustt) (	Turn Rate ?/100usft)
Bulld 12º //1					a station (s				
11,000.5	0.00	0.00	11,000.5	0.0	0.0 10.2	0.0	0.00 12.00	0.00 12.00	0.00 0.00
11,100.0 11,200.0	11.94 23.94	97.39 97.39	11,099.3 11,194.2	-1.3 -5.3	40.7	10.3 41.1	12.00	12.00	0.00
11,300.0	35.94	97.39	11,280.7	-11.7	90.1	90.9	12.00	12.00	0.00
11,400.0	47.94	97.39	11,355.0	-20.3	156.3	157.6	12.00	12.00	0.00
11,500.0	59.94	97.39	11,413.7	-30.7	236.3	238.3	12.00	12.00	0.00
11,600.0	71.94	97.39	11,454.4	-42.4	326.7	329.4	12.00	12.00	0.00
11,700.0	83.94	97.39	11,475.3	-54.9	423.5	427.1	12.00	12.00	0.00
+EOB(@;90:3 11,753.8	9° Inc / 97:39°/ 90.39	Azm / 11478 97.39	11,478.0	-61.9	476.7	480.7	12.00	12.00	0.00
11,800.0	90.39	97.39	11,477.6	-67.8	522.6	527.0	0.00	0.00	0.00
11,900.0	90.39	97.39	11,476.9	-80.7	621.8	627.0	0.00	0.00	0.00
12,000.0	90.39	97.39	11,476.3	-93.5	720.9	727.0	0.00	0.00	0.00
12,100.0	90.39	97.39	11,475.6	-106.4	820.1	827.0	0.00	0.00	0.00
12,200.0	90.39	97.39	11,474.9	-119.3	919.2	927.0	0.00	0.00	0.00
12,300.0	90.39	97.39	11,474.2	-132.1	1,018.4	1,027.0	0.00	0.00	0.00
12,400.0 12,500.0	90.39 90.39	97.39 97.39	11,473.5 11,472.8	-145.0 -157.9	1,117.6 1,216.7	1,126.9 1,226.9	0.00 0.00	0.00 0.00	0.00 0.00
12,600.0	90.39	97.39	11,472.1	-170.7	1,315.9	1,326.9	0.00	0.00	0.00
12,700.0	90.39	97.39	11,471.5	-183.6	1,415.1	1,426.9	0.00	0.00	0.00
12,800.0	90.39	97.39	11,470.8	-196.5	1,514.2	1,526.9	0.00	0.00	0.00
12,900.0	90.39	97.39	11,470.1	-209.3	1,613.4	1,626.9	0.00	0.00	0.00
13,000.0	90.39	97.39	11,469.4	-222.2	1,712.6	1,726.9	0.00	0.00	0.00
13,100.0 13,200.0	90.39 90.39	97.39 97.39	11,468.7 11,468.0	-235.1 -247.9	1,811.7 1,910.9	1,826.9 1,926.9	0.00 0.00	0.00 0.00	0.00 0.00
13,300.0 13,400.0	90.39 90.39	97.39 97.39	11,467.3 11,466.6	-260.8 -273.7	2,010.1 2,109.2	2,026.9 2,126.9	0.00 0.00	0.00 0.00	0.00 0.00
13,400.0	90.39	97.39 97.39	11,466.0	-286.5	2,109.2	2,126.9	0.00	0.00	0.00
13,600.0	90.39	97.39	11,465.3	-299.4	2,307.6	2,326.9	0.00	0.00	0.00
13,700.0	90.39	97.39	11,464.6	-312.3	2,406.7	2,426.9	0.00	0.00	0.00
13,800.0	90.39	97.39	11,463.9	-325.1	2,505.9	2,526.9	0.00	0.00	0.00
13,900.0	90.39	97.39	11,463.2	-338.0	2,605.1	2,626.9	0.00	0.00	0.00
14,000.0	90.39	97.39	11,462.5	-350.9	2,704.2	2,726.9	0.00	0.00	0.00 0.00
14,100.0 14,200.0	90.39 90.39	97.39 97.39	11,461.8 11,461.2	-363.7 -376.6	2,803.4 2,902.6	2,826.9 2,926.9	0.00 0.00	0.00 0.00	0.00
14,300.0	90.39	97.39	11,460.5	-389.4	3,001.7	3,026.9	0.00	0.00	0.00
14,300.0	90.39 90.39	97.39 97.39	11,460.5	-389.4 -402.3	3,001.7	3,026.9 3,126.9	0.00	0.00	0.00
14,500.0	90.39	97.39	11,459.1	-415.2	3,200.1	3,226.9	0.00	0.00	0.00
14,600.0	90.39	97.39	11,458.4	-428.0	3,299.2	3,326.9	0.00	0.00	0.00
14,700.0	90.39	97.39	11,457.7	-440.9	3,398.4	3,426.9	0.00	0.00	0.00
14,800.0	90.39	97.39	11,457.0	-453.8	3,497.6	3,526.9	0.00	0.00	0.00
14,900.0 15.000.0	90.39	97.39	11,456.3	-466.6	3,596.7 3.695.9	3,626.9	0.00	0.00	0.00 0.00
15,000.0 15,100.0	90.39 90.39	97.39 97.39	11,455.7 11,455.0	-479.5 -492.4	3,695.9 3,795.1	3,726.9 3,826.9	0.00 0.00	0.00 0.00	0.00
15,200.0	90.39	97.39	11,454.3	-505.2	3,894.2	3,926.9	0.00	0.00	0.00
15,300.0	90.39	97.39	11,453.6	-518.1	3,993.4	4,026.9	0.00	0.00	0.00
15,400.0	90.39	97.39	11,452.9	-531.0	4,092.6	4,020.9	0.00	0.00	0.00
15,500.0	90.39	97.39	11,452.2	-543.8	4,191.7	4,226.9	0.00	0.00	0.00
15,600.0	90.39	97.39	11,451.5	-556.7	4,290.9	4,326.9	0.00	0.00	0.00
15,700.0	90.39	97.39	11,450.8	-569.6	4,390.1	4,426.9	0.00	0.00	0.00
15,800.0	90.39	97.39	11,450.2	-582.4	4,489.2	4,526.9	0.00	0.00	0.00
15,900.0	90.39	97.39	11,449.5	-595.3	4,588.4	4,626.9	0.00	0.00	0.00

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COMPASS 5000.1 Build 39

# DDC Well Planning Report

Company: A Project: B Site: S Veil: V Veil: V	DM 5000.1 Si Newbourne Oil ea County, Ne ec 21: T23S; Vildcat 21:El F Vellbore #1 Vellbore #1 Vellbore #1	Co w Mexico (N 34E ed Com #11	lad 83)	TVD Re MD Ref North R	Co-ordinate R ference: lerence: Reference: Calculation:I		WELL @ 351	21 LI.Fed Con 18 Ousft (Patter 18 Ousft (Patter vature	șon)
Planned Survey Measured Depth In (ustt)	clinátion A	zimuth: (°)	Vertical Depth (usft)	+N/-S (usft)	÷e/-w	Vertical Section (usft) (	Dogleg Rate %100usft): (	Bulld Rate ?/100usft) (	Turn Rate /100usft)
16,100.0 16,114.5	90.39 90.39	97.39 97.39	11,448.1 11,448.0	-621.0 -622.9	4,786.7 4,801.1	4,826.9 4,841.3	0.00 0.00	0.00 0.00	0.00 0.00
Design Targëts [ Farget Name - hilVmise target - L - Shape	Dip Angle Di (;)	An Andrew Strategy of the Stra	物料 化气气 新生物 建酸盐 中国 白頭石	+E/-W (usft)	Northing (usft)	ı Easti (üsf		atitude	Longitude
PBHL Wildcat 21 LI F - plan hits target cer - Point	0.00 nteř	0.00 11,4	48.0 -622	2.9 4,801.1	1 469,365	5.80 808,	887.20 32°	17' 14.611 N	103° 28' 3.142
Plan Annotations Measure Depth	d Vertica Depth	A STATE WE WANT WAT	Local Coordir //-S	nates +E/-W					

	and the set	82 8 AS 2822	A CALL COLOR AND A CALL	COLLEY AND ADDRESS	A STATE OF A SALEY AND A SALEY
11,000	).5	11,000.5	0.0	0.0	Build 12° / 100'
11,753	3.8	11,478.0	-61.9	476.7	EOB @ 90.39° Inc / 97.39° Azm / 11478' TVD
16,114	1.5	11,448.0	-622.9	4,801.1	TD @ 16115' MD / 11448' TVD

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### Notes Regarding Blowout Preventer Mewbourne Oil Company Wildcat 21 LI Fed Com #1H 2310' FSL & 150' FWL (SHL) Sec 21-T23S-R34E Lea County, New Mexico

- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 2000 psi working pressure on 13 3/8" casing and 3000 psi working pressure on 9 5/8" & 7" casing.
- III. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 3000 psi working pressure.
- IV. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- V. A kelly cock shall be installed on the kelly at all times.

Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.



Well Name: Wildcat 21 LI Fed Com #1H

4.10



H2S Diagram

Closed Loop Pad Dimensions 280' x 320'

