# STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF MEWBOURNE OIL COMPANY FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

Case No. 20505

### SELF-AFFIRMED STATEMENT OF LEE SCARBOROUGH

- 1. I am over 18 years of age and am competent to provide this Self-Affirmed Statement. I have personal knowledge of the matters addressed herein.
- 2. I am a landman for Mewbourne Oil Company ("Mewbourne"). I have had direct involvement with Mewbourne's development of the 640-acre standard horizontal spacing unit ("HSU") that is the subject of Mewbourne's application in this case.
- 3. A Midland Map with the HSU outlined is attached hereto as Exhibit A. The HSU is comprised of the N/2 of Section 16 and the N/2 of Section 17, Township 20 South, Range 29 East in Eddy County.
- 4. Mewbourne seeks to pool all uncommitted mineral interests in the Wolfcamp formation underlying the HSU. The unit will be dedicated to Mewbourne's proposed Glock 17/16 W0DA Fed Com #3H well, which will be horizontally drilled from a surface location in Unit A in Section 18 to a bottom hole location in Unit A in Section 16, Township 20 South, Range 29 East. Attached hereto as Exhibit B is the C-102 for the well.
  - 5. There are no depth exceptions in the Wolfcamp formation underlying the HSU.
- 6. 80.171% of the working interests in the HSU are committed to the proposed well.

  A table identifying the committed and uncommitted interests is attached hereto as Exhibit C.

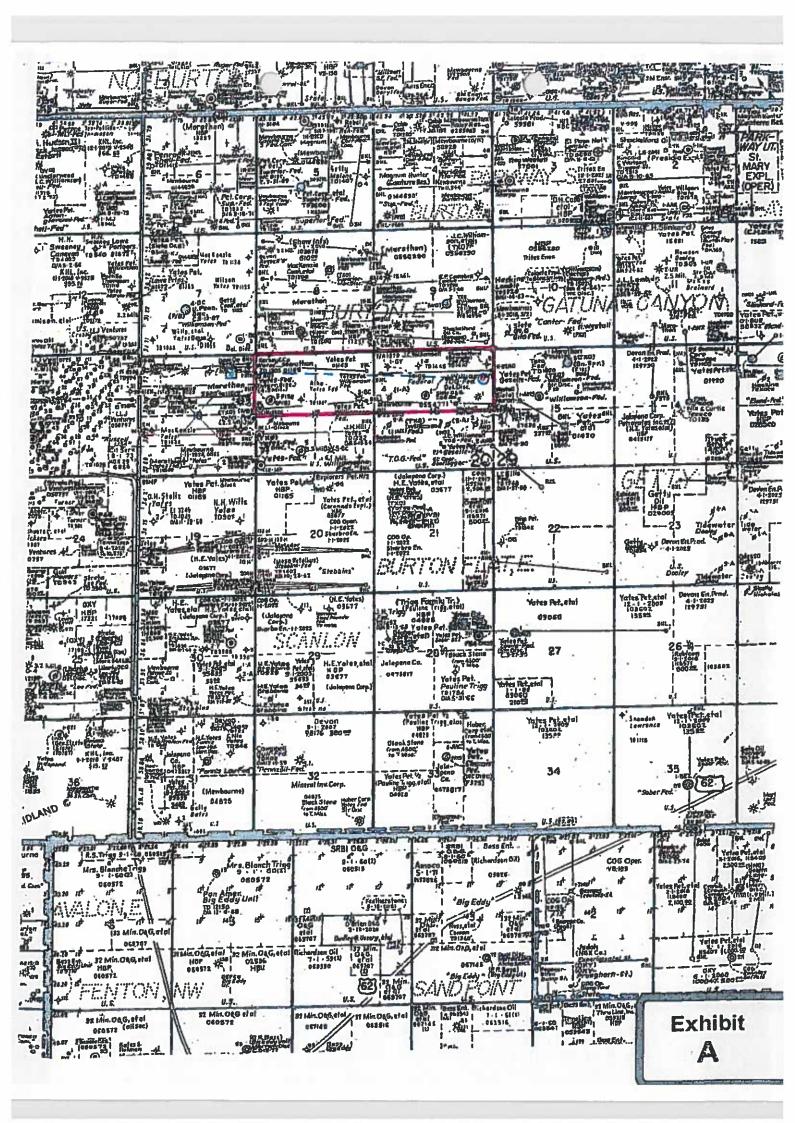
Case No. 20505
MEWBOURNE OIL
Exhibit #1

- 7. On January 28, 2019, I sent a well proposal letter to each of the then-uncommitted mineral interests in the HSU. A sample of my well proposal letter and a spreadsheet identifying the interests to whom I sent the letter are attached hereto as Exhibit D.
- 8. After I sent the well proposal letters, I had follow-up communications with uncommitted interests, several of whom leased their interest to Mewbourne.
- 9. In my opinion, Mewbourne has made a good faith effort to obtain the voluntary joinder of the uncommitted interests in the HSU.
- 10. Notice of Mewbourne's application and the Division hearing was provided to the remaining uncommitted mineral interests by certified mail. A sample of the notice letters and the green cards that have been returned are attached hereto as Exhibit E.
- 11. Because certain of the uncommitted interests were unlocatable, Mewbourne published notice of the Division hearing on May 22, 2019. A copy of the Carlsbad Current-Argus Affidavit of Publication is attached hereto as Exhibit F.
- 12. The AFE for the proposed well is attached hereto as Exhibit G. The estimated cost of the well is fair and reasonable, and is comparable to the costs of other wells of similar depth and length drilled in Eddy County.
- 13. Mewbourne requests overhead and administrative rates of \$8,000 per month while the well is being drilled and \$800 per month while the well is producing. These rates are fair, and are comparable to the rates charged by Mewbourne and by other operators in the vicinity. They are also the rates set forth in the Joint Operating Agreement for the well. Mewbourne further requests that the rates be adjusted periodically in accordance with the COPAS Accounting Procedure.
  - 14. Mewbourne requests that it be designated the operator of the well.

- 15. Mewbourne also requests that a 200% risk charge be assessed against the remaining uncommitted interests if they are non-consenting working interest owners.
- 16. In my opinion, the granting of Mewbourne's application would avoid the drilling of unnecessary wells and serve the interests of conservation and the prevention of waste.
- 17. The exhibits attached hereto were either prepared by me or under my supervision or were compiled from company business records.
- 18. I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 17 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Lee Scarborough

1/2/2019 Date



District I
1525 N. French Dr., Hobbas, NM 88240
Phone: (375) 393-6161 Fau: (575) 393-0720
Districk II
811 S. First St., Aricsie, NM 88210
Phone: (375) 748-1283 Fau: (573) 748-9720
District III
1000 Rio Brazon Read, Aztec, NM 87410
Phone: (505) 334-6178 Fau: (505) 334-6170
District IV
1220 S. St.; Francis Dr., Santa Fc., NM 87503
Phone: (505) 476-3460 Fau: (503) 476-3462

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

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

MENDED REPORT

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4 Property 0					4 Property N	DA FED COM	-		,	Well Number
rogrud ∫ Ч ¬ Ļ				WEWI	Operator h	lame L COMPANY				Elevation 3265
	•••	• •			"Surface	Location				
UL or lat no.	Section	Township	Range	Loi Jda	Feet from the	North/South line	Feel From the	East/\Ves	il line	County
A	18	20S	29E		824	NORTH	582	EAS	T	EDDY
		19	ן יי	Bottom H	lole Location	If Different Fr	om Surface		•	
UL or let no.	Section	Township	Rango	Lai Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
A	16	205	29E		1310	NORTH	100	EAS	т	EDDY
13 Dedicated Acre	13 Joint	or Infill 14 (	Consolidation	Code 15 C	Order No.					
624.91					2					

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

Ī	<b>!</b>			"OPERATOR CERTIFICATION
ı	GEODETIC DATA	CORNER DATA	I: FOUND BRASS CAP "1916"	I handy carlify that the information contained hereis is you and emaplete
J	NAO 83 GRID — NN EAST	NAD B3 GRID - NM EAST	N: 575105,3 - E: 621999,3	to the best of my knowledge and belief and that this organization eliber-
- 1	SURFACE LOCATION	A: FOUND 1" IRON PIPE N: 569795,3 - E: 606355,1	J: FOUND BRASS CAP "1916" N: 572482.9 - E: 622006.1	owns a working interest or unionsed interest in the load including
	N: 574263:9 - E: 610845.2	B: FOUND BRASS CAP "1942"		the proposed hottom hale location or has a right to drill this well at this
- 1	LAT: 32.5785032' N LONG: 104.1076783' W	N: 572439.7 - E: 606381,9	K: FOUND BRASS CAP "1916" N: 569820.2 — E: 622012.4	hunder present to a custificit with an owner of such a mineral or working
- 1	BOTTOM HOLE	C: FOUND BRASS CAP "1916"	L: FOUND BRASS CAP "1916"	interest, we to a robustary pooling agreement or a computary positing
- 1	N: 573785.2 - E: 621902.7	N: 575051.0 - E: 608409.4	N: 569809.9 E: 619369.9	arder heretofore entered by the division.
-	LAT: 32,5771454' N LONG: 104,0717844' W	D: FOUND BRASS CAP "1916" N: 575085.1 - E: 608784.7	M: FOUND BRASS CAP "1916" N: 569798.5 — E: 816727.6 :(	Dork fother 5 11 )19
		E: FOUND BRASS CAP "1916" N: 575088.6 — E: 611425.3	N: FOUND BRASS CAP "1916" N: 569801.9 — E: 614082,2	The Kie Lather
		F: FOUND BRASS CAP "1916" N: 575086.5 — E: 614071.1	0: FOUND BRASS CAP "1916" N: 669804.9 - E: 611437.8	
Į		C: FOUND BRASS CAP "1916" N: 575085.0 - E: 616714.9	P: FDUND BRASS CAP "1916" N: 569800.7 — E: 608796.2	E-stall Address
1		H: FOUND BRASS CAP "1916"	O: FOUND BRASS CAP "1916"	"SURVEYOR CERTIFICATION
- 1		N: 575095,2 - E: 619357,5	N: 572443.7 - E: 616721,6	I hereby certify that the well location shown on this
				plat was plutted from field notes of actual surveys
				made by me or under my supervision, and that the
يهأ	mind har and a participal of mind that markets site of	Large Michigan State Company State Control Control	District of the Best on Stientenness, Market	Dsame is true and correct to the best of my belief.
) C			9	2-26-2019
3	824			Date of Survey
<b>}</b>				Signature and Seal of Pro-Spoul Surveying
3	1 1 302		100'-4	Signature and Seel of processed Spropping
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E S				13 14 W. A. 15
	1			19680
<u>.</u>				Certificate Number
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Exhibit

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	WFMP		Comments
MOC	35.1744644	0	
Santo	0.9865924	1	
Оху	1.4798884	9	
WPX	3.3297491	1	
Davoil	3.81143660	ו	
McCombs	1.47988849	9	
Sand Dollar	0.36997212	2	
Johnston	0.18499317	7	
Short	0.18499080		
Axis	0.33966259		
Wildcat	0.33966259		
Vladin	0.49329609		
Brooks	0.20718439		
AmWest	3.80701315		
Greenstar	0.00238961		
Beavers	0.00238961		
EOG	19.93446800		
Clopton	0.00143383		
McCormick	0.00143383		
Manclark	0.00143383		
Fasken	8.03906250		
Total WI Committed	80.17140561		
CP		WEND	
GtWestern	6.91775558	WFMP	Nonetistis IOA
Marathon	10.32962169	<del></del>	Negotiating JOA Negotiating JOA
BoydLaughlin	10.32902109	0.73994425	Megonating JOA
Josephine Laughlin		0.73994425	122
WestWay		0.73334423	2.5
Trompter		0.01147044	
Clampett's		0.00159315	<u>_</u>
. Bodean		0.00159315	
aDoca		0.00159315	
lewett/Powell Tr 2		0.00139313	-
lewett/Powell Tr 1		0.00052187	
iegler Tr 2		0.00032187	_
Siegler Tr 1		0.00423738	
Tutton		0.00032187	
K Clay		0.00313360	
VP Kendall			
Vm Jacobs		0.00358441	
andrew McMahon	+	0.00338441	
ussell Sampson		0.00286791	
assen sampson	-	0.00530301	

Exhibit C

Total CP			19.82859439
Total	17.24737727	2.58121712	<del></del>
Sandra Starratt		0.00017924	<del></del>
Wm Fetner		0.00143383	
William Bondeson		0.00143383	
Whitney Wilson		0.00143372	
Warren Rosenquist		0.00143383	
Henry Landers	<del>                                     </del>	0.00143383	
lackie Willis	-	0.00143383 0.00143383	
r Grover Swift	-	0.00143383	
Steven Lindesmith Thomas Geimer		0.00143383	
Robert Varn Steven Lindesmith		0.00143372	
Norton Waldfogel		0.00143383	
Neil Schilke	ļ	0.00143383	
Mark Sandler		0.00143383	
DL Pilant	-	0.00071686	<u>.</u>
MD Williams	<del> </del>	0.00071686	
L Zwick Trust		0.00143372	
John Steffan		0.00143383	
Trust 454F		0.00143383	
Leroy Burnette		0.00143383	
Leroy Simkins		0.00143383	
Larry Pickett		0.00143383	
Robert Steinman		0.00047794	
Judith Borger		0.00023899	
Michael Steinman		0.00023899	
Janet Joslin		0.00143383	
St Devote		0.67666990	
Harry Green		0.00143383	•
Harry Poll		0.00143395	
Harry Bersner		0.00143395	
Glenn Duke		0.00071698	
Gilbert Kanegawa		0.00143395	
George Oringdulph		0.00143395	
First St Bk		0.00143395	
Dorothy Hinchliff		0.00143395	
Don Friedman		0.00071686	
Charles Albright	-	0.00143395	
Autruo Sterling	<del>                                     </del>	0.00143395	
Anthony Hawe		0.00143395	
Ann Ragsdale	<del>- -</del>	0.00143395	
Alex Roter	<del></del>	0.00179220	
Patricia McMillian Lewis Holmes		0.00215069	
Description and partitions		0.00045000	1

### MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020 Midland, Texas 79701 Phone (432) 682-3715 Fax (432) 685-4170

January 28, 2019

### Overnight Mail

### **WORKING INTEREST OWNERS**

Re:

Proposed Horizontal Tests

Section 16 and 17, Township 20 South, Range 29 East

Eddy County, New Mexico Glock 17/16 Prospect

#### Ladies and Gentlemen:

Mewbourne Oil Company, as Operator, hereby proposes to form a 1,280.00 acre Working Interest Unit ("WIU") covering all of Section 16 and 17, Township 21 South, Range 32 East, Eddy County, New Mexico. This WIU will include all depths from the top of the Third Bone Spring sand to the base of the Wolfcamp formation as defined on Exhibit A of the Operating Agreement attached hereto.

In conjunction with the formation of the WIU, Mewbourne proposes to drill the following listed wells:

1) Glock 17/16 W0DA Fed Com #3H – APD Pending Approval Surface Location: 824' FNL, 582' FEL, Section 18

Bottom Hole Location: 1310' FNL, 100' FEL, Section 16

Proposed Total Vertical Depth: 9,320' Proposed Total Measured Depth: 20,195'

Formation: Wolfcamp (N/2)

2) Glock 17/16 B3DA Fed Com #2H - APD Pending Approval

Surface Location: 800' FNL, 600' FEL, Section 18 Bottom Hole Location: 400' FNL, 100' FEL, Section 16

Proposed Total Vertical Depth: 9,045'
Proposed Total Measured Depth: 19,920'

Formation: Bone Spring (N/2N/2)

Mewbourne will drill these wells "back-to-back", utilizing a "walking rig", in an effort to maximize cost efficiencies by reducing mobilization charges.

Enclosed for your review and further handling are AFEs for each of the wells listed above. In the event you elect to participate, please execute each AFE and return same to the undersigned within thirty (30) days, our proposed Operating Agreement is also enclosed for your review and execution. Please provide your most current well information requirements so that we may update our records.



Glock 17/16 Prospect Page 2 of 2

Feel free to contact me at (432) 682-3715 or via email at <u>Iscarborough@mewbourne.com</u> if you have any questions.

Very truly yours,

### MEWBOURNE OIL COMPANY

Lee M. Scarborough Landman

Enclosures

отрапу	Mailed	Received	Contact	Saldroper			1
		Π		Challeso +	Address2	Phone	Misc
Jex M. Roter	3/18/2019 Returner	Returned					
Indrew F. MacMahon	2/10/2010			2 Westbury Drive	St. Charles, MO 63301		
	3/18/2019 Keturned	Keturned		POB 130090	Houston, TX 77219-Ando	712 434 5501	
viii o. nagsuale	3/18/2019 Returned	Returned		111 E Both	New York City Ny 10021	TCDC-N74-CY/	
urthony Hawe	3/18/2019	3/18/2019 3/29/2019		2724 American Sadler Drive Park City. UT 84060	Park City, UT 84060		
		Returned					
sturo G. Sterling	3/18/2019 Retriened	Retriened		I anglewood Kual Route 1	Pleasant Plains, IL 62677		
harles C. Albright Trust	3/18/2019 Returned	Returned		425 E 58th, #35-B	New York City, NY 10022		
Ion Friedman		Returned		729 West 16th Street, #8-8	Costa Mesa, CA 92627		
torothy Hinchliff	3/18/2/10 Behirmor	Detrimod		3219 South Gregg Court	Denver, CO 80210		
. Trompeter Estate	creation in	Returned	Robin Trompeter-5025 NW 31st Way,	17495 Royalton Road	Stronsville, OH 44136		
	2/40/2040		Boca Raton, FL 33496	4020 Labal Ca DITNE	iarzana, CA 91356		
int Chata Bant	ETOZ/OT/E			6026 NW 31st Way	Boca Raton, FL 33496		
South Ma Orientalian of the Orientalian	3/18/2019 Returned	П	Alston R. Colbert	POB 98	Rockwall, TX 75087		
eoige w. Chirganiph & n.c. Unngaulpn, geca	3/18/2019 Returned		Rob Oringdulph	2605 Park Avenue	Alamora CD 81101		
illoert t. Kanegawa	3/18/2019	3/18/2019 3/27/2019		99-155 Moanava Road	Alea, HI 96701		
ilenn E. Duke	3/18/2019 Returned	Returned		3240 San Mateo Street	Clearwater, Ft 33759-3630		
larry Bersner	3/18/2019 Returned	Returned		100 to 101			
larry F. Poll	3/18/2019 Returned	Returned		Cato Description of the	San Francisco, CA 94101		
larry L. Green, Sr.	3/18/2019 Returned	Returned		1000 BY THE PLACE	Fullerton, CA 92635		
lefene B. Hewett/Barbara A Powell Trust 1				TOP B VINGINIA ST	Hannibal, MO 63401		
lelene B. Hewett/Barbara A Powell Trust 2				Adoress Unknown			
lenry C. Landers		Towns.		Address Unknown			
		Returned		1003 East Street	Redding, CA 95001		
lomer C Tutton	2/19/2010/Botumon	Bottimod		6575 Majestic View Drive	Anderson, CA 96007		
/or J. Silver	2/10/2015 Detuilled	מפרחו יופת		6510 FM 3012	Wharton, TX 77488		
ackie D. Willis	יין דוני (פין	מפניתו נופס		1 Southhampton Place	Lafayette, CA 94549		
	2/10/2040	עבוחוניהם		1021 East Street	Snyder, OK 73566		
anet 5. Joslin	5/70/5/T			POB 357	Snyder, TX 73566		
Jhn Steffsn	a fee feet	П.		Address Unknown			
ohn Steinman, dec'd	3/18/2019 Returned	Keturned	c/o Lloyd Steffan	824 Riverview Drive	Plymouth, WI 53073		
	12/2/ch	8102/51/4	# 2/ ZOLES 4/ LS/ ZULE MICHAEL H. STEINMAN, Executor	16358 E Jacklin Drive	Fountain Hills, AZ 85268	480-396-8218 Not interested	Not interested
	5707/c/ <del>-</del>	8107/ET/b	4) 2) ZULS 4/ LS) ZULS KODErt Steinman	424 Sunset Drive	П		
	4/5/2019	4/13/2019	4/5/2019 4/13/2019 Judith Borger	4020 Mesdow Drive	Conrwall, PA 17016		sld to Jacke Willis,
arry M. Pickett	3/18/2019 Returned	Returned	38 VSS 38 VS	5215 Navalo Drive	Derator II Cacac		Willschild, Snyder, OK
					מקריים יו היידים		

					Addressa	Рпале	Misc
eroy H. Simkins, Jr.	2/18/2019	פרחל/אל/ב ופנחל/18/2		850 W Hickory Point Road	Decator, IL 62526		
Broy L. Burnette	100	2010210		/ Indian Creek Road	Augusta, GA 30909		Not interested
Purk F Holmor	2,417			Address Unknown			
The state of the s	3/18/2019 4/13/207	4/13/2019		1109 SC Highway 191	Trenton, SC 29847		
Illian Kamph, Irustee of Trust 454F	3/18/2019 Returned	Returned	Marcia F. Kamph, Successor Trustee	1320 E Ocean Front	Ralhoa CA 03661	000	
ouesther Zwick Trust IV	3/18/2019 Returned	<b>Returned</b>			TROY CO (SOCIETY	043-c/0-c4c	
Mark J. Sandler	3/18/2019 Returned	Returned		15 West Boad	Chort utile up ateats		
40 Willams & DL Plant	3/18/2019 Returned	Returned		500 laural Conset	Stolt Hits, NO U/U/8		
leil W. Schilke	3/18/2019 3/25/201	3/25/2019		TODO MANIE ALLERA	Baton Kouge, LA 70801		
Vorton S. Waldfogel	3/18/2019 Benimed	Betrimed		1520 N NYE AVENUE	Freemont, NE 68025		
atricia A. McWillian	2/18/2019 2/18/2019	3/70/2010		16 Brown Road	Swampscott, MA 01907		
Sobert M Vaco	2/40/2040	- 100 /c		1104 Constant Spring Road   Austin, TX 78746	Austin, TX 78746		
Street Comment	3/ 15/ 2015 Returned	Keturnea		3059 Farmington Lane	Atlanta, GA 30399		
Jen 5. Sempson	9			Address Unknown			
Sangra H. Starratt	3/18/2019 3/22/201	3/22/2019	9 c/o RLS, Inc.	886 Chesnut Street	San Jose CA 95110		
		Returned		POB 1419	Spainel Ch DE073		
Segler Family Trust 1	13/18/2019 3/23/201	3/23/2019	9 Pete Keedy, Sr.VP., Wells Fargo Bank		Aurita Try 2012		
siegier family Trust 2	3/18/2019 3/23/201	3/23/2019	19 Pete Keedy, Sr.VP., Wells Farzo Bank		A::-15 12 70704		
3K Clay U/TRT 6-21-78	3/18/2019 Returned	Returned	Northern Bank Trust	(200 Birkell Avenue	Musuii, 14 /8/04		
Steven R. Lindesmith	3/18/2019 Retrironed	Returned	rio IM Flammer Co	Por State Avenue	Widmi, rt. 33131		incorrect
Grover Swift. Ir. dec'd	2/10/2010	טיטנ/ נני/ נ	2/10/2010 a/2010 tullian a survey	PUB 34/6	Anaheim, CA 92803		
	TOY/OT/C	2/22/2012	Juliasue Swift	749 N Main Street	Fort Worth, TX 76164		
rhomas Geimer	3/18/2019 Returned	Returned	€3	7877 E Mississippi Av,	Denver, CO 80231		
Warren N. Rosenquist	3/18/2019 Returned	Returned		35 Farran Orlive	Hillshorough CA 94040		
Westway Pet	1/28/2019 2/5/201	2/5/2019	Benjamin H. Read	5400 N. Ord Events #208	Callan To arrange		
Whitney Karis Wilson	3/18/2019	3/23/2019	Whitney Wilson Jones, Owner	601 Bailey Avenue	Cart 147-46 Triange	214-740-4080 FOA-52N2	FOA-S2N2
William Bondeson	3/18/2019	3/23/2019	William Bondeson, Julie Bondeson	D12 Long State Date	Cal Wolds, 1A /610/		
Wm P McCormick	3/18/2019	3/25/2019	3/18/2019 3/25/2019	Ant CW 12th Avenue	Columbia, MO 65203		
		Returned		DOD CAE	roi uana, OR 37205		
	3/18/2019 Returned	Returned		1900 COC .	Bena, OK 97/09-0545		
Wm W. Fetner	3/18/2019 Returned	Returned	c/o lawton Burna	20200	Bena, OK 97708		
Wm. Jacobs	3/18/2019 Returned	Returned		10 S Broadway	St. Louis, MO 63102		
WP Kendall U/TRT 6-21-78	3/18/2019 Rehizon	Pohimad	Total total	Sou Revere Koad	Columbus, OH 04321		
Unit Petroleum Company - now Percussion	4/5/2019 4/12/20	4/12/2019		/UV BICKEII AVENUE	Miami, P. 33131		incorrect
Clampett's Tea, L.L.C.	3/18/2019 Beturned	Bathimad		-			
aDoca, HC	3/10/1048	מיביתוופת		U113 Abram Creek Drive	Eagle, CO 81531		
Codes 10	Damay Kroz/or/c	Keturned		POB 631449	Houston, TX 77263		
boueally Lib	3/18/2019 Returned	Returned		529 North 4th Street	San Jose CA 95112		
Tamon Og Permise III.	1						

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Addison	۱	F Albitonomics Nil	ממלונים מי	Midland TX 70701	Biggin	
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Ompany	osephine Lauehlin Living Trust		ireat Western Drilling, Ital		Joyd Laughlin Estate	

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### HINKLE SHANOR LLP

ATTORNEYS AT LAW
PO BOX 2068
SANTA FE, NEW MEXICO 87504
505-982-4554 (FAX) 505-982-8623

WAITER
Gary W. Larson,
Partner
glarson@hinklelawfirm.com

May 21, 2019

### VIA CERTIFIED MAIL

Marathon Oil Permian LLC Attn: Matthew D. Brown 5555 San Felipe Houston, TX 77056

Re: Mewbourne Oil Company NMOCD Application

Dear Mr. Brown:

Enclosed is a copy of an application for compulsory pooling that Mewbourne Oil Company ("Mewbourne") has filed with the New Mexico Oil Conservation Division ("the Division"). Mewbourne's application requests the pooling off all uncommitted mineral interests in the Wolfcamp formation in a standard 640-acre horizontal spacing unit comprised of the N/2 of Section 16 and the N/2 of Section 17. Township 20 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.

This matter is scheduled for hearing at 8:15 a.m. on Thursday, June 13, 2019 in Porter Hall at the Division's offices located at 1220 South St. Francis Drive. Santa Fe, New Mexico 87505. Marathon Oil Permian LLC ("Marathon") is not required to attend this hearing, but as an owner of an interest that may be affected by Mewbourne's application, it may appear at the hearing and present testimony. If Marathon does not appear at that time and become a party of record, it will be precluded from contesting the matter at a later date.

A party appearing in a Division case is required by the Division's Rules to file a Pre-Hearing Statement, which in this matter must be filed no later than Thursday. June 6, 2019. The Pre-Hearing Statement must be filed with the Division's Santa Fe office at the address above, and should include: the name of the party and the party's attorney: a concise statement of the case; the name(s) of the witness(es) the party will call to testify at the hearing: the approximate amount of time the party will need to present the party's case; and an identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to me.

Thank you for your attention to this matter.

Very truly yours.

Gary W. Larson

GWL:sm Enclosure

> PO BOX 10 ROSWELL, NEW MEXICO 88202 576-622-6610 (FAX) 576-623-9332

PO BOX 1720 ARTESIA, NEW MEXICO 88210 575-622-6810 (FAX) 575-746-6318 PO BOX 2068 SANTA FE, NEW MEXICO 67504 505-982-4554 (FAX) 505-962-8623

**Exhibit** 

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
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Midland, TX 79701	79-10-2
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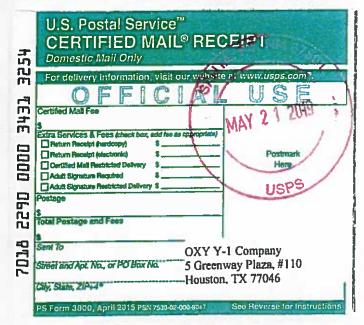
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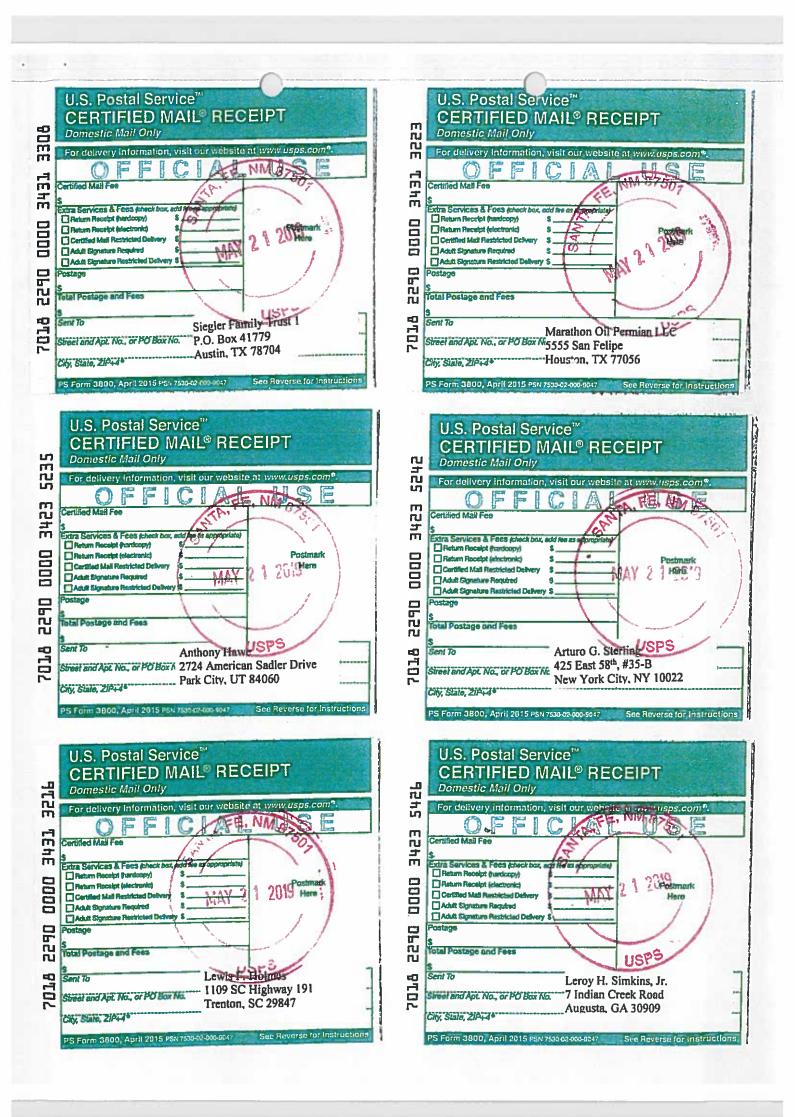












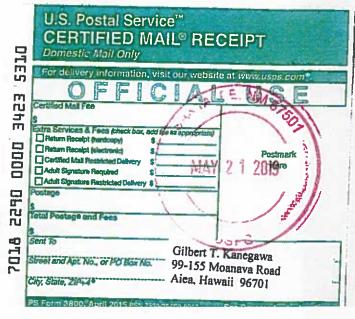














## CURRENT-ARGUS

#### **AFFIDAVIT OF PUBLICATION**

Ad No. 0001286578

HINKLE SHANOR, LLP P.O. BOX 2068

SANTA FE NM 87504

I, a legal clerk of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

05/22/19

Subscribed and sworn before me this 22nd of May 2019.

State of WI, County of Brown NOTARY PUBLIC

My Commission Expires

Ad#:0001286578 P O: 0001286578 # of Affidavits:0.00



This is to notify all interested parties, including America West Resources, LLC, Great Western Drilling, Ltd., the Josephine Laughlin Living Trust, EOG Resources, Inc., Greenstar Resources, L.L.C., the Boyd Laughlin Estate, Westway Petro, Marathon Oil Permian LLC, OXY Y-1 Company, Fasken Land and Minerals, Ltd., the E. Trompeter Estate, J. Bodean LLC, the Helen B. Hewett/Barara Powell Trust 2, the Siegler Family Trust 1, the S.K. Clay Trust, William Jacobs, By Trust 1, Samuel S. Samuel S Russell S. Sampson, Patricia A. McMillian, Alex M. Roter, Ann S. Ragsdale, Arturo G. Sterling, the Charles C. Albright Trust, Dorothy Hinchliff, First State Bank, Harry F. Poll, Percussion Petroleum, LLC, Janet S. Joslin, Michael H. Steinman, Larry M. Pickett, Clampett's Tea, L.L.C., LaDoca LLC, the Helen B. L.L.C., LaDoca LLC, the Helen B. Hewett/Barbara Powell Trust 1, the Siegler Family Trust 2, Homer C. Tutton, the W.P. Kendall Trust, Andrew E. McMahon, Ivor J. Silver, Lewis F. Holmes, Anthony Hawe, Jeanne C. Friedman, George M. Oringdulph, Gilbert T. Kanegawa, Harry Bersner, Harry L. Green, Sr., James Roby Clopton, Inc. Judith Borger, Robert Steinman, Leroy L. Burnette, Trust 454F, Leroy H. Simkins, Jr., John L. Steffan, the Louesther Zwick Trust IV, Mark J. Sandler, Norton S. Waldford Robert M. Varn Thomas Geimer T. Waldfogel, Robert M. Varn, Thomas Geimer, T. Grover Swift, Jr., William Bondeson, William P. McCormick, William W. Fetner, Glenn E. Duke, M.D. Williams, D.L. Pilant, Neil W. Schike, Steven R. Lindersmith, Jackie D. Willis, Warren N. Rosenquist, Whitney K. Wilson Jones, William R. Manclark, Sandra H. Starratt and their successors and assigns, that the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by Mewbourne Oil Company at 8:15 a.m. on June 13, 2019 in Porter Hall at 1220 South St. Francis Drive, Santa Fe, New Mexico. Mewbourne Oil Company seeks an order pooling all uncommitted mineral interests in the Wolfcmp formation in a standard 640-acre horizontal spacing unit comprised of the N/2 of Section 16 and the N/2 of Section 17, Township 20 South, Range 29 East in Eddy County, New Mexico. The horizontal spacing unit is to be dedicated to Mewbourne Oil Company's proposed Glock 17/16 WODA Fed Com #3H well, which will be horizontally drilled from a surface location in Unit A in Section 18 to a bottom hole location in Unit A in Section 16, Township 20 South, Range 29 East. The completed interval for the well will be orthodox. Also to be considered will be the cost of drilling and completing the well and the allocation of the cost, the designation of Mewbourne Oil Company as the operator of the well, and a 200% charge for the risk\_involved in drilling and completing the well. The well location is approximately thirteen (13) miles northeast of Carlsbad, New Mexico.

Pub: May 22, 2019 #1286578

Exhibit

### MEWBOURNE OIL COMPANY AUTHORIZATION FOR EXPENDITURE

Well Name: Glock 17/16 WODA Fed Com #3H			spect: Gi			
Location: SL: 824' FNL & 582' FEL(18); BHL: 1310' FNL & 100' FEL (1	16)	c	ounty: Ed	dy		ST: NM
Sec. 17/16 Blk: Survey:	TWP:	205	RNG:	29E Prop. T	/D: 9320	TMD: 20195
INTANGIBLE COSTS 0180			CODE	ТСР	CODE	cc
Regulatory Permits & Surveys			0180-0100		0 0180-0200	
Location / Road / Sile / Preparation			0160-0105	\$70,00	0180-0205	\$25,0
Location / Restoration			0180-0108	\$200,00	0 0180-0208	\$30,00
Daywork / Turnkey / Footage Drilling 30 days drig / 4 days comp @ \$22	2,000/4		0180-0110	\$705,00	0 0180 0210	\$94,00
Fuel 1700 gal/day @ 2.74/gal			0180-0114		0 0180-0214	\$400,00
Mud, Chemical & Additives			0180-0120		0 0180-0220	
Horizontal Drillout Services			1	1223	0180-0222	\$250,00
Cementing			0180-0125	\$130.00	0 0180-0225	\$30,00
Logging & Wireline Services			0180-0130		0 0180-0230	\$220,00
Casing / Tubing / Snubbing Service			0180-0134		0180-0234	\$90,00
Mud Logging			0180-0137	\$30,00		450,00
Stimulation 50 Stg 20.4 MM gal / 20.4 MM lb			B100-0131	430,00	0180-0241	\$2,520,00
Stimulation Rentals & Other					0180-0242	\$150,00
Water & Other			0400 0445	840.00		
			0180-0145		0180-0245	\$660,00
Bits			0180-0146		0180-0248	\$8,00
Inspection & Repair Services			0180-0150	\$40,00	0160-0250	\$6,00
Misc, Air & Pumping Services			0180-0154		0180-0254	\$10,00
Testing & Flowback Services			0180-0158	\$15,000	0180-0268	\$30,00
Completion / Workover Rig					0180-0260	\$10,60
Rig Mobilization			0180-0164	\$100,000		
Transportation			0180-0185		0180-0285	\$20,00
Welding Services			0180-0189		0180-0268	\$15,00
Contract Services & Supervision			0180-0170		0180-0270	\$30,00
Directional Services Includes Vertical Control			0180-0175	\$283,500		
Equipment Rentat			0180-0180	\$250,000	0180-0280	\$30,00
Well / Lease Legal			0180-0184	\$5,000	0180-0284	<u> </u>
Well / Lease Insurance			0180-0185	\$8,100	0180-0285	
ntangible Supplies			0180-0188		0180-0288	\$10,00
Damages			0180-0190		0180-0290	
ROW & Easements			0180-0192	V-1	0180-0202	\$5,000
Pipeline Interconnect		$\neg$	2100 0100		0180-0293	
Company Supervision	-	-	0180-0195	\$153,600	0180-0295	\$78,800
Overhead Fixed Rate			0180-0195		0160-0298	\$20,000
Well Abandonment	-	-	0180-0198	410,000	D180-0298	920,000
Contingencies 2% (TCP) 2% (CC)			0180-0199	&E2 000	0180-0299	\$94,800
Johnnychuses Zin (107) Zin (00)	10.0		0100-01891			
		ITAL		\$2,703,900		\$4,834,100
TANGIBLE COSTS 0181		H			1	
Casing (19.1" - 30") 460' - 20" 94# J-55 BT&C @ \$79.04/ft			0181-0793	\$38,900	1	
Casing (10.1" - 19.0") 1400" - 13 3/8" 54.5# J-55 ST&C @ \$42,99/ft			0181-0794	\$64,300		
Casing (8.1" - 10.0") 3200" - 9 5/8" 40# L80 LT&C @ \$34.65/ft			0181-0795	\$118,500	_	
Casing (6.1" - 8.0") 9585' - 7" 29# HCP-110 LT&C @ \$26.99/ft		_	0181-0796	\$275,300		
Casing (4.1" - 6.0") 10750' - 4 1/2" 13.5# P-110 BPN @ \$14.94/R		- 1			0181-0797	\$171,600
ubing 8786' - 2 7/8" 6.5# L-80 EUE 8rd @ \$5.74/ft					0181-0798	\$53,900
Drilling Head			0181-0860	\$40,000		
ubing Head & Upper Section			0101-0000	<b>V 10,000</b>	0181-0870	\$30,000
iorizontal Completion Tools Completion Liner Hanger		-			0181-0871	\$75,000
Ricker Rods		┈╟	-		0181-0875	410,000
ubsurface Equipment			_		0181-0860	
						#25 ODO
rtificial Lift Systems Gas Lift Valves & Packer		∦			0181-0884	\$25,000
umping Unit		_			0181-0885	220.000
urface Pumps & Prime Movers VRU/SWD Pump/Circ Pump					0181-0886	\$30,000
anks - Oil 2 - 750 bbl		_			0181-0890	\$38,000
anks - Water 2 - 750 bbl coated		_			0181-0891	\$48,000
eparation / Treating Equipment 30"x10"x1k# 3 ph/35"x15"x1k#					0181-0895	\$45,000
eater Trasters, Line Heaters 8'x20'x75# HT					0181-0897	\$35,000
letering Equipment					0181-0898	\$14,000
ne Pipa & Valves - Gathering					0181-0900	\$10,000
Itings / Valves & Accessories					0181-0908	\$40,000
athodic Protection					0181-0908	\$8,000
lectrical installation					0181-0909	\$50,000
quipment Installation					0181-0910	\$30,000
peline Construction					0181-0920	\$10,000
	TO	AL.		\$638,000		\$713,500
	SUBTO	AL	<u></u>	\$3,241,900		\$5,547,690
TOTAL WE	11 009	T		<b>40 70</b>	9,500	
dra Expanse Insurance	and C			of the greatur		68- 10
l elect to be covered by Operator's Extra Expense insurance and Operator has secured Extra Expense insurance covering costs of well						80-0185.
Operator has secured Extra Expansa Insurance covering costs of well	al control, c	deen up	end redrillin			80-0185.
Operator has secured Extra Expense Insurance covering costs of well i elect to purchase my over well control insurance policy.  Tellher box is checked above, non-operating working interest owner elects to be covered by Operating working interest owner elects to be operating working interest owner elects on the operating working interest owner elects on the operating working working interest owner elects on the operating working work	il control, c	leen up	and redition			80-0185.
Operator has secured Extra Expense Insurance covering costs of well  I elect to purchase my over well control insurance policy.  Tellher box is checked above, non-operating working interest owner elects to be covered by Operating the covered by T. Cude	il controt, c	ieen up I control Dale:	end redrillin			80-0185.
Operator has secured Extra Expense Insurance covering costs of well i elect to purchase my over well control insurance policy.  Tellher box is checked above, non-operating working interest owner elects to be covered by Operating working interest owner elects to be operating working interest owner elects on the operating working interest owner elects on the operating working working interest owner elects on the operating working work	il controt, c	leen up	and redition			80-0185.
Operator has secured Extra Expense Insurance covering costs of well  I elect to purchase my over well control insurance policy.  Tellher box is checked above, non-operating working interest owner elects to be covered by Operating the covered by T. Cude	il controt, c	ieen up I control Dale:	and redition			80-9185.

Exhibit G

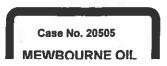
# STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF MEWBOURNE OIL COMPANY FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

Case No. 20505

### SELF-AFFIRMED STATEMENT OF CHARLES CROSBY

- I am over 18 years of age and am competent to provide this Self-Affirmed
   Statement. I have personal knowledge of the matters addressed herein.
- 2. I am a geologist at Mewbourne Oil Company ("Mewbourne"). I am familiar with the geological matters that pertain to Mewbourne's application.
- 3. Attached hereto as Exhibit A is a structure map on the top of the Wolfcamp formation. The map shows that the structure dips east-southeast. It also shows a line of cross section and the horizontal spacing unit ("HSU") for the proposed Glock 17/16 W0DA Fed Com #3H well.
- 4. Attached hereto as Exhibit B is a gross sand isopach map of the Wolfcamp Sand formation, which is the target zone for the proposed well. It shows that the sand across the HSU has a thickness of approximately 45-50 feet.
- 5. Attached hereto as Exhibit C is a west to east cross section. The well logs on the cross section provide a representative sample of the Wolfcamp formation in the area. The target zone for the proposed well is continuous across the HSU.
- 6. Based on the information contained in Exhibits A, B and C, I am able to conclude that:
  - a) The HSU is justified from a geologic sandpoint;

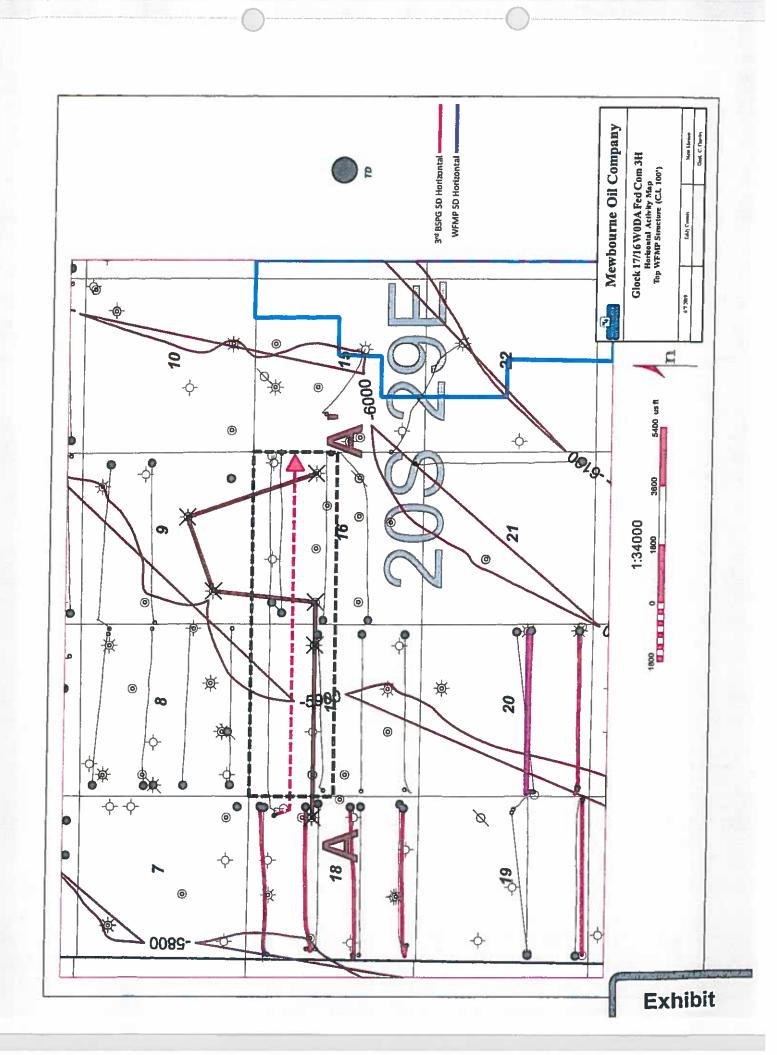


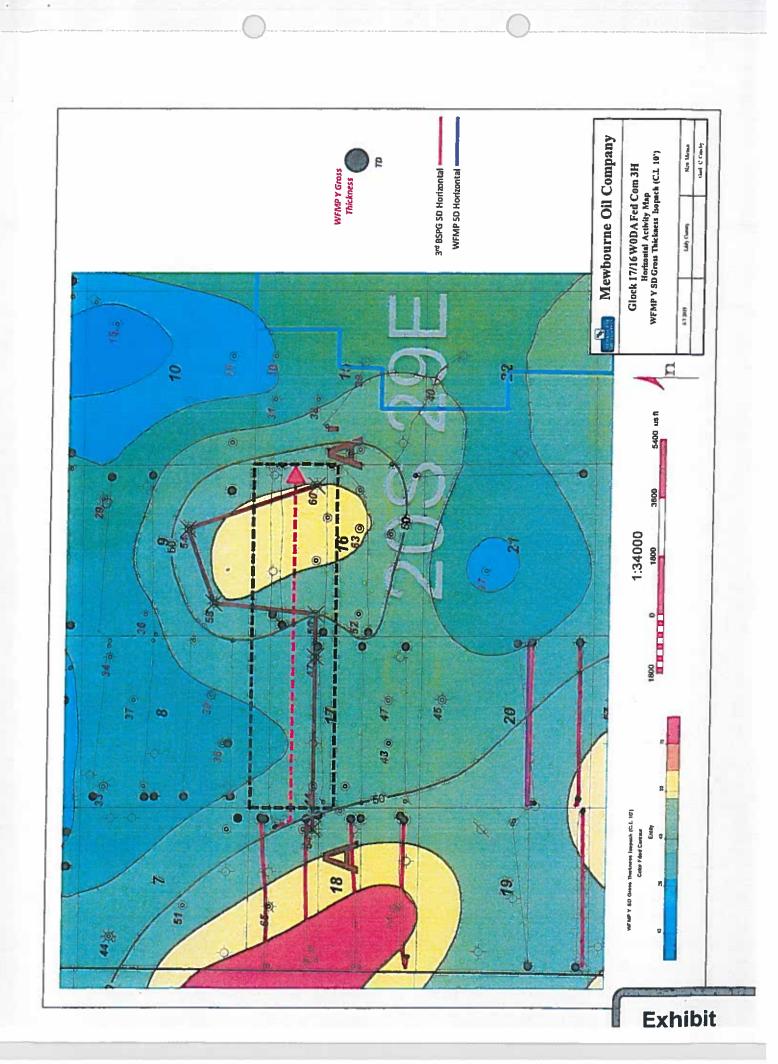
- b) There is no faulting or other geologic impediment that could adversely affect the drilling of the proposed well; and
- c) Each quarter-quarter section in the HSU will contribute more or less equally to production.
- 7. Attached hereto as Exhibit D is a table containing data information from other Wolfcamp and 3<sup>rd</sup> Bone Spring Sand wells drilled in the vicinity. The preference is for laydown wells (west to east or east to west).
- 8. Attached hereto as Exhibit E is the Well Planning Report for the proposed well.

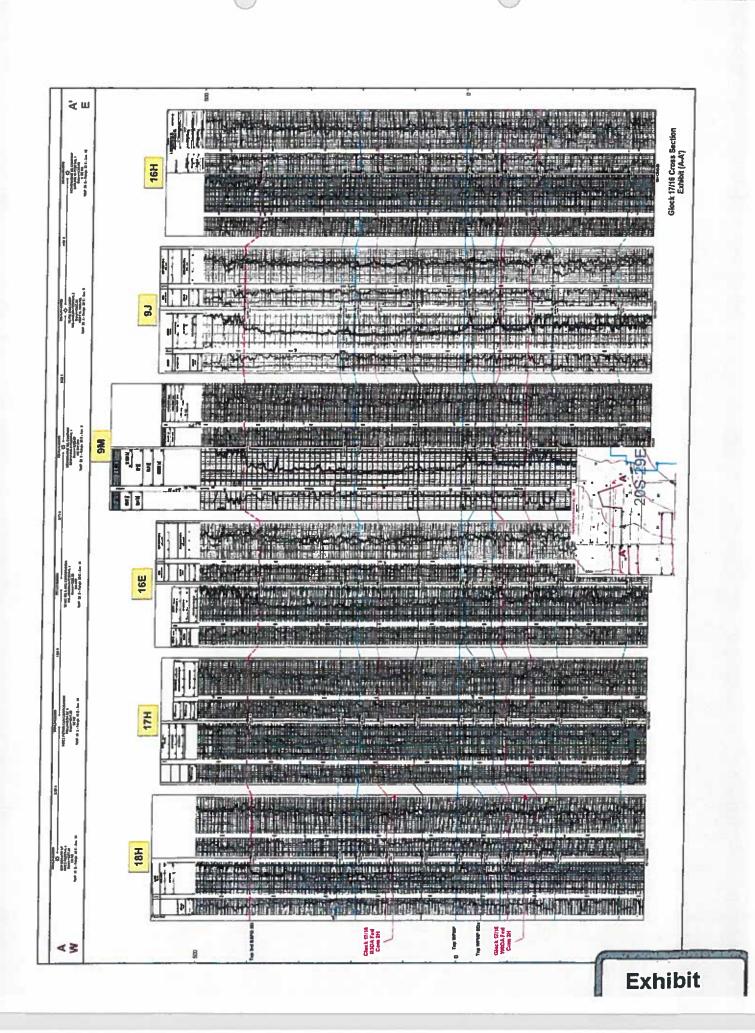
  The well's producing interval will be orthodox.
- 9. In my opinion, the granting of Mewbourne's application will serve the interests of conservation and the prevention of waste.
- 10. Exhibits A through E were either prepared by me or compiled from company records.
- 11. I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 10 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Charles Canalis

6/12/19 Date







			Glock A	Glock Area Production Table	aldi				
Well Name									
	Operator	API	Location	Completion Date	Cum Oil (Mbo)	Cum Gae (Brd)	Cours Minter Challens	100,000	
rringer 18 B3DA Federal 2H	Marchouse	200000000000000000000000000000000000000	100 000			(170) 500 (170)	Culit water (MDW)	NS/EW	Production Zone
17 17 17 17 17 17 17 17 17 17 17 17 17 1	INCAMDOLINE	30013429B30000	18D-205-29E	9/10/2015	219.7	1.1	211 4		0.0000000000000000000000000000000000000
ringer 18 B3EH Foderal 2H	Mawhourne	COCCUTACATION	111 000 107				777	2	STO BSPG SD
	ALL MODALINE	30012435780000	18E-2US-29E	5/24/2017	179.5	20	2002	è	Car Carro France
Stephine 20 Federal 13/19	A Anna Jan						320.3	ĽΛΛ	Srd BSPG SD
Utch length to Length 1940	Matagor	30015441750000	20M-20S-29E	11/8/2017	70.8	ć			
Stabbine 20 Endorn 123U	1 -4-14			1400 60 60	13:0	7.0	246.1		3rd BSPG SD
HEET IPIAN TO LENGTH	Matador	30015441830000	201-205-29F	7/14/7	2 00				
Pohhior 20 Federal 2021				/TO7/LT //	03.0	0.7 0.7	300	2	And Rope on
HEDDINS TO FEDERAL ZUSH	Matador	30015441840000	201-205-20E	71/0/1/1					ord bor
Statistics 40 ft - 1		2000	ZUC-200-23E	/102/0/11		Pending		200	MATCHAD CORN
HEDDINS TA LEGGED 13/H	Matador	3001544187000	100, 300, 100		1	l			DUDC HALLAG
		2000	157-C02-15T		Pending	ling		WG.	מיין למיום מייני
Tringer 18 65U Federal 2H	Mewhorine	200154421005	יסר יסר יסר	4 14 15 15 15	L				Octobro pic
	THE PROPERTY.	CONTENHATION	18L-202-73E	1/6/2018	197.3	700	ר אטכ		
Minger 18 B3MP Federal 2H	Maurhouse	20011404010000					2.052	EW	ard BSPGSD
	MEMODIFIE	DOUTS#481BOOOD	18M-2US-29E	9/8/2018	1083		217.2	1	
					400.5	7.0	21/.3	- A	AND HADDING



### Mewbourne Oil Company

Eddy County, New Mexico (Nad 83) Sec 18,T20S,R29E Glock 17-16 W0DA Fed Com #3H

Wellbore #1

Plan: Design #1

### **QES Well Planning Report**

12 April, 2019









Database: Company:

EDM 5000.1 Single User Db Mewbourne Oil Company

Project:

Eddy County, New Mexico (Nad 83)

Site: Well:

Sec 18,T20S,R29E

Glock 17-16 W0DA Fed Com #3H

Wellbore: Design:

Wellbore #1 Design #1

Local Co-ordinate Reference:

TVD Reference: **MD** Reference:

North Reference:

**Survey Calculation Method:** 

Well Glock 17-16 W0DA Fed Com #3H

WELL @ 3292.0usft (Patterson #250) WELL @ 3292.0usft (Patterson #250)

Grid

Minimum Curvature

Project

Eddy County, New Mexico (Nad 83)

Map System:

US State Plane 1983

Geo Datum:

North American Datum 1983

Map Zone:

New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site

Sec 18,T20S,R29E

Site Position:

Map

Northing: Easting:

574,535.70 usft 606,553.80 usft Latitude: Longitude: 32° 34' 45.389 N

**Position Uncertainty:** 

0.0 usft

Slot Radius:

13-3/16 "

**Grid Convergence:** 

104" 7' 17,790 W

0.11

Well

From:

Glock 17-16 W0DA Fed Com #3H

**Well Position** 

+N/-S +E/-W

-271.8 usft 4,291.4 usft

Northing: Easting:

574,263.90 usft 610,845.20 usft Latitude: Longitude: 32° 34' 42.612 N

**Position Uncertainty** 

0.0 usft

Wellhead Elevation:

Ground Level:

104° 6' 27.642 W 3,265.0 usft

Wellbore

Wellbore #1

Magnetics

Model Name

Sample Date

Declination (\*)

Dip Angle (°)

Field Strength (nT)

**HDGM** 

4/11/2019

7.23

60.33

47,994.70000000

Design

Design #1

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.0

Vertical Section:

Depth From (TVD) (usft)

0.0

9,367.0

-468.7

+N/-S (usft)

0.0

+E/-W (usft)

0.0

0.00

0.00

0.00

Direction (°)

92.43

Plan Sections

19,958.7

89.48

89.91

	_									
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (*/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,025.0	0.00	0.00	3,025.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,271.0	4.92	157.10	3,270.7	-9.7	4.1	2.00	2.00	0.00	157.10	
8,833.6	4.92	157.10	8,812.8	-449.2	189.7	0.00	0.00	0.00	0.00	
9 583 4	80 48	80 91	9 273 n	-4R4 7	662.7	12.00	11.59	-9 21	-67.30	

11,057.5

0.00 PBHL Glock 17-16



**QES** 

Database: Company: Project: EDM 5000.1 Single User Db Mewbourne Oil Company

Eddy County, New Mexico (Nad 83)

Sec 18,T20S,R29E

Well: Glock 17-16 W0DA Fed Com #3H

Wellbore: Design:

Site:

Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Glock 17-16 W0DA Fed Com #3H WELL @ 3292.0usft (Patterson #250)

WELL @ 3292.0usft (Patterson #250) Grid

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)		+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (*/100usft)	Build Rate (°/100ysft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0		0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0,0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
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	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
		0.00	2,100.0						
2,200.0	0.00			0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0,0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0:00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 2°/100									
3,025.0	0.00	0.00	3,025.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	1.50	157.10	3,100.0	-0.9	0.4	0.4	2.00	2.00	0.00
3,200.0	3.50	157.10	3,199.9	-4.9	2.1	2.3	2.00	2.00	0.00
	e Inc / 157.10°		0,10010				2.00	2.00	0.00
3,271.0	4.92	157.10	3,270.7	-9.7	4.1	4.5	2.00	2.00	0.00
3,300.0	4.92	157.10	3,299.6	-12.0	5.1	5.6	0.00	0.00	0.00
3,400.0	4.92	157.10	3,399.2	-19.9	8.4	9.2	0.00	0.00	0.00
	4.92	157.10	3,399.2	-13.5					
3,500.0					11.7	12.9	0.00	0.00	0.00
3,600.0	4.92		3,598.5	-35.7	15.1		0.00	0.00	0.00
3,700.0	4.92	157.10	3,698.1	-43.6	18.4	20.3	0.00	0.00	0.00
3,800.0	4.92	157.10	3,797.7	-51.5	21.8	23.9	0.00	0.00	0.00
3,900.0	4.92	157.10	3,897.4	-59.4	25.1	27.6	0.00	0.00	0.00
4,000.0	4.92	157,10	3,997.0	-67.3	28.4	31.3	0.00	0.00	0.00
4,100.0	4.92	157.10	4,096.6	-75.2	31.8	34.9	0.00	0.00	0.00
4,200.0	4.92	157.10	4,196.3	-83.1	35.1	38.6	0.00	0.00	0.00
4,300.0	4.92	157.10	4,295.9	<del>-9</del> 1.0	38.4	42.3	0.00	0.00	0.00
4,400.0	4.92	157.10	4,395.5	-98.9	41.8	45.9	0.00	0.00	0.00
			4,395.3						
4,500.0	4.92	157.10		-106.8	45.1	49.6	0.00	0.00	0.00
4,600.0	4.92	157.10	4,594.8	-114.7	48.5	53.3	0.00	0.00	0.00
4,700.0	4.92	157.10	4,694.4	-122.6	51.8	56.9	0.00	0.00	0.00
4,800.0	4.92	157.10	4,794.1	-130.5	55.1	60.6	0.00	0.00	0.00
4,900.0	4.92	157.10	4,893.7	-138.4	58.5	64.3	0.00	0.00	0.00



**QES** 

Database: Company: Project:

Site:

Well:

EDM 5000.1 Single User Db Mewbourne Oil Company

Eddy County, New Mexico (Nad 83)

Sec 18,T20S,R29E

Glock 17-16 W0DA Fed Com #3H

Wellbore: Design: Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Glock 17-16 W0DA Fed Com #3H WELL @ 3292.0usft (Patterson #250) WELL @ 3292.0usft (Patterson #250)

Grid

Design.	Design #1									
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,000.0	4.92	157.10	4,993.3	-146.3	61.8	68.0	0.00	0.00	0.00	
5,100.0	4.92	157,10	5,093.0	-154.2	65.1	71.6	0.00	0.00	0.00	
5,200.0	4.92	157.10	5,192.6	-162.1	68.5	75.3	0.00	0.00	0.00	
5,300.0	4.92		5,292.2			79.0				
5,400.0	4.92 4.92	157.10 157.10	5,292.2 5,391.9	-170.0 -177.9	71,8 75,2	79.0 82.6	0.00 0.00	0.00 0.00	0.00 0.00	
5,500.0	4.92	157.10	5,491.5	-185.8	78.5	86.3	0.00	0.00	0.00	
5,600.0	4.92	157.10	5,591.1	-193.7	81.B	90.0	0.00	0.00	0.00	
5,700.0	4.92	157.10	5,690.7	-201.6	85.2	93.6	0.00	0.00	0.00	
5,800.0 5,900.0	4.92 4.92	157.10 157.10	5,790.4 5,890.0	-209.5 -217.4	88.5 91.8	97.3 101.0	0.00 0.00	0.00 0.00	0.00 0.00	
6,000.0	4.92 4.92	157.10	5,690.0 5,989.6	-217.4	91.6 95,2	104.6	0.00	0.00	0.00	
6,100.0	4.92	157.10	6,089.3	-223.3 -233.2	98.5	108.3	0.00	0.00	0.00	
6,200.0	4.92	157.10	6,188.9	-241.1	101.9	112.0	0.00	0.00	0.00	
6,300.0	4.92	157.10	6,288.5	-249.0	105.2	115.6	0.00	0.00	0.00	
6,400.0	4.92	157.10	6,388.2	-256.9	108.5	119.3	0.00	0.00	0.00	
6,500.0	4.92	157.10	6,487.8	-264.8	111.9	123.0	0.00	0.00	0.00	
6,600.0 6,700.0	4.92 4.92	157.10 157.10	6,587.4 6,687.1	-272.7 -280.6	115.2 118.5	126.7 130.3	0.00 0.00	0.00 0.00	0.00 0.00	
6,800.0	4.92	157.10	6,786.7	-288.5	121.9	134.0	0.00	0.00	0.00	
6,900.0	4.92	157.10	6,886.3	-296.4	125.2	137.7	0.00	0.00	0.00	
7,000.0	4,92	157.10	6,986.0	-304.3	128.6	141.3	0.00	0.00	0.00	
7,100,0	4.92	157.10	7,085.6	-312.2	131.9	145.0	0.00	0.00	0.00	
7,200.0	4.92	157.10	7,185.2	-320.1	135.2	148.7	0.00	0.00	0.00	
7,300.0	4.92	157.10	7,284.9	-328.0	138.6	152.3	0.00	0.00	0.00	
7,400.0	4.92	157.10	7,384.5	-335.9	141.9	156.0	0.00	0.00	0.00	
7,500.0	4.92	157.10	7,484.1	-343.8	145.2	159.7	0.00	0.00	0.00	
7,600.0	4.92	157.10	7,583.7	-351.7	148.6	163.3	0.00	0.00	0.00	
7,700.0	4.92	157.10	7,683.4	-359.6	151.9	167.0	0.00	0.00	0.00	
7,800.0	4.92	157.10	7,783.0	-367.5	155.3	170.7	0.00	0.00	0.00	
7,900.0	4.92	157.10	7,882.6	-375.4	158.6	174.3	0.00	0.00	0.00	
8,000.0	4.92	157.10	7,982.3	-383.3	161.9	178.0	0.00	0.00	0.00	
8,100.0	4.92	157.10	8,081.9	-391.2	165.3	181.7	0.00	0.00	0.00	
8,200.0	4.92	157,10	8,181.5	-399.1	168.6	185.4	0.00	0.00	0.00	
8,300.0	4.92	157.10	8,281.2	-407.0	171.9	189.0	0.00	0.00	0.00	
8,400.0	4.92	157.10	8,380.8	-414.9	175.3	192.7	0.00	0.00	0.00	
8,500.0	4.92	157.10	8,480.4	-422.8	178.6	196.4	0.00	0.00	0.00	
8,600.0	4.92	157,10	8,580.1	-430.7	182.0	200.0	0.00	0.00	0.00	
8,700.0	4.92	157.10	8,679.7	-438.6	185.3	203.7	0.00	0.00	0.00	
8,800.0	4.92	157,10	8,779.3	-446.5	188.6	207,4	0.00	0.00	0.00	
Build 12º/10	0'									
8,833.6	4.92	157.10	8,812.8	-449.2	189.7	208.6	0.00	0.00	0.00	
8,850.0	5.96	139.34	8,829.1	-450.5	190.6	209.5	12.00	6.35	-108.29	
8,875.0	8.23	123.16	8,853.9	-452.5	192.9	211.9	12.00	9.06	-64.70	
8,900.0	10.85	114.32	8,878.6	-454.4	196.6	215.6	12.00	10.51	-35.36	
8,925.0	13.63	108.97	8,903.0	-456.3	201.5	220.6	12.00	11.12	-21.41	
8,950.0	16.49	105.42	8,927.2	-458.2	207.7	226.9	12.00	11.42	-14.19	
8,975.0	19.39	102.90	8,950.9	-460.1	215.2	234.5	12.00	11.59	-10.07	
9,000.0	22.31	101.02	8,974.3	<del>-4</del> 61.9	223.9	243.2	12.00	11.70	-7.53 5.06	
9,025.0	25.26	99.56	8,997.2	-463.7	233.8	253.2	12.00	11.77	-5.86	
9,050.0	28.21	98.38	9,019.5	-465.5	244.9	264.4	12.00	11.81	-4.71	
9,075.0	31.17	97.41	9,041.2	-467.2	257.2	276.7	12.00	11.85	-3.88	
9,100.0	34.14	96.59	9,062.3	-468.8	270.6	290.2	12.00	11.87	-3.27	
9,125.0	37.11	95.89	9,082.6	-470.4 471.0	285.0	304.7	12.00	11.89	-2.80	
9,150.0	40.08	95.28	9,102.1	-471.9	300.5	320.3	12.00	11.90	-2,44	



**TVD Reference:** 

MD Reference:



Database: Company: Project:

EDM 5000.1 Single User Db Mewbourne Oil Company

Site: Well:

Glock 17-16 W0DA Fed Com #3H

Wellbore: Wellbore #1 Design #1 Design:

Eddy County, New Mexico (Nad 83) Sec 18,T20S,R29E

North Reference: **Survey Calculation Method:** 

Local Co-ordinate Reference:

Well Glock 17-16 W0DA Fed Com #3H WELL @ 3292.0usft (Patterson #250) WELL @ 3292.0usft (Patterson #250)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,175.0	43.06	94,74	9,120.8	-473.4	317.1	336.8	12.00	11.91	-2.16
9,200.0	46.04	94,26	9,138.6	-474.7	334.6	354.4	12.00	11.92	-1.93
9,225.0	49.03	93,82	9,155.5	-476.0	353.0	372.8	12.00	11.93	-1.75
9,250.0	52.01	93,42	9,171.4	-477.3	372.2	392.1	12.00	11.94	-1.59
9,275.0	55.00	93,06	9,186.3	-478.4	392.3	412.2	12.00	11.94	-1.47
9,300.0	57.98	92.72	9,200.1	-479.4	413.1	433.0	12.00	11.95	-1.37
9,325.0	60.97	92.40	9,212.8	-480.4	434.6	454.6	12.00	11.95	-1.28
9,350.0	63.96	92.09	9,224.3	-481.3	456.7	476.7	12.00	11.95	-1.21
9,375.0	66.95	91.81	9,234.7	-482.0	479.5	499.5	12.00	11.95	-1.15
9,400.0	69.94	91.53	9,243.9	-482.7	502.7	522.7	12.00	11.96	-1.10
9,425.0	72.93	91.27	9,251.9	-483.3	526.4	546.4	12.00	11.96	-1.06
9,450.0	75.92	91.01	9,258.6	-483.8	550.5	570.5	12.00	11.96	-1.02
9,475.0	78.91	90.76	9,264.0	-484.1	574.9	594.9	12.00	11.96	-1.00
9,500.0	81.90	90.52	9,268.2	-484.4	599.5	619.5	12.00	11.96	-0.98
9,525.0	84.89	90.28	9,271.1	-484.6	624.3	644.3	12.00	11.96	-0.96
9,550.0	87.88	90.04	9,272.6	-484.7	649.3	669.2	12.00	11.96	-0.95
EOB @ 89. 9,563.4 9,600.0 9,700.0 9,800.0	48° Inc / 89.91 89.48 89.48 89.48 89.48	* Azm / 9273* ` 89.91 89.91 89.91 89.91	TVD 9,273.0 9,273.3 9,274.2 9,275.1	-484.7 -484.6 -484.4 -484.3	662.7 699.3 799.3 899.3	682.6 719.2 819.1 919.0	12.00 0.00 0.00 0.00	11.96 0.00 0.00 0.00	-0.95 0.00 0.00 0.00
9,900.0	89.48	89.91	9,276.0	-484.1	999.3	1,018.9	0.00	0.00	0.00
10,000.0	89.48	89.91	9,276.9	-484.0	1,099.3	1,118.8	0.00	0.00	0.00
10,100.0	89.48	89.91	9,277.8	-483.8	1,199.3	1,218.7	0.00	0.00	0.00
10,200.0	89.48	89.91	9,278.7	-483.7	1,299.3	1,318.6	0.00	0.00	0.00
10,300.0	89.48	89.91	9,279.6	-483.5	1,399.3	1,418.5	0.00	0.00	0.00
10,400.0	89.48	89.91	9,280.5	-483.4	1,499.2	1,518.4	0.00	0.00	0.00
10,500.0	89.48	89.91	9,281.4	-483.2	1,599.2	1,618.3	0.00	0.00	0.00
10,600.0	89.48	89.91	9,282.3	-483.1	1,699.2	1,718.2	0.00	0.00	0.00
10,700.0	89.48	89.91	9,283.2	-482.9	1,799.2	1,818.1	0.00	0.00	0.00
10,800.0	89.48	89.91	9,284.1	-482.8	1,899.2	1,918.0	0.00	0.00	0.00
10,900.0	89.48	89.91	9,285.0	-482.6	1,999.2	2,017.9	0.00	0.00	0.00
11,000.0	89.48	89.91	9,285.9	-482.5	2,099.2	2,117.8	0.00	0.00	0.00
11,100.0	89.48	89.91	9,286.9	-482.3	2,199.2	2,217.7	0.00	0.00	0.00
11,200.0	89.48	89.91	9,287.8	-482.1	2,299.2	2,317.6	0.00	0.00	0.00
11,300.0	89.48	89.91	9,288.7	-482.0	2,399.2	2,417.5	0.00	0.00	0.00
11,400.0	89.48	89.91	9,289.6	-481.8	2,499.2	2,517.4	0.00	0.00	0.00
11,500.0	89.48	89.91	9,290.5	-481.7	2,599.2	2,617.3	0.00	0.00	0.00
11,600.0	89.48	89.91	9,291.4	-481.5	2,699.2	2,717.2	0.00	0.00	0.00
11,700.0	89.48	89.91	9,292.3	-481.4	2,799.2	2,817.1	0.00	0.00	0.00
11,800.0	89.48	89.91	9,293.2	-481.2	2,899.2	2,917.0	0.00	0.00	0.00
11,900.0	89.48	89.91	9,294.1	-481.1	2,999.2	3,016.9	0.00	0.00	0.00
12,000.0	89.48	89.91	9,295.0	-480.9	3,099.2	3,116.8	0.00	0.00	0.00
12,100.0	89.48	89.91	9,295.9	-480.8	3,199.2	3,216.7	0.00	0.00	0.00
12,200.0	89.48	89.91	9,296.8	-480.6	3,299.2	3,316.6	0.00	0.00	0.00
12,300.0	89.48	89.91	9,297.7	-480.5	3,399.2	3,416.5	0.00	0.00	0.00
12,400.0	89.48	89.91	9,298.6	-480.3	3,499.2	3,516.4	0.00	0.00	0.00
12,500.0	89.48	89.91	9,299.5	-480.1	3,599.2	3,616.3	0.00	0.00	0.00
12,600.0	89.48	89.91	9,300.4	-480.0	3,699.2	3,716.2	0.00	0.00	0.00
12,700.0	89.48	89.91	9,301.3	-479.8	3,799.2	3,816.1	0.00	0.00	0.00
12,800.0	89.48	89.91	9,302.2	-479.7	3,899.1	3,916.0	0.00	0.00	0.00
12,900.0	89.48	89.91	9,303.1	-479.5	3,999.1	4,015.9	0.00	0.00	0.00
13,000.0	89.48	89.91	9,304.0	-479.4	4,099.1	4,115.8	0.00	0.00	0.00



Database: Company: Project:

Site:

EDM 5000.1 Single User Db Mewbourne Oil Company

Eddy County, New Mexico (Nad 83) Sec 18,T20S,R29E

Well:

Wellbore: Design:

Glock 17-16 W0DA Fed Com #3H

Wellbore #1 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

**Survey Calculation Method:** 

Well Glock 17-16 W0DA Fed Com #3H WELL @ 3292.0usft (Patterson #250)

WELL @ 3292.0usft (Patterson #250) Grid

ed Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (*/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,100.0	89.48	89.91	9.304.9	-479.2	4,199.1	4,215.7	0.00	0.00	0.00
13,200.0	89.48	89.91	9,305.9	-479.1	4,299.1	4,315.6	0.00	0.00	0.00
13,300.0	89.48	89.91	9,306.8	-478.9	4,399.1	4,415.5	0.00	0.00	0.00
13,400.0	89.48	89.91	9,307.7	-478.8	4,499.1	4,515.4	0.00	0.00	0.00
13,500.0	89.48	89.91	9.308.6	-478.6	4,599.1	4,615.3	0.00	0.00	0.00
13,600.0	89.48	89.91	9,309.5	-478.5	4,699.1	4,715.2	0.00	0.00	0.00
13,700.0	89.48	89.91	9,310,4	-478.3	4,799,1	4,815,1	0.00	0.00	0.00
13,800.0	89.48	89.91	9,311.3	-478.2	4,899.1	4,915.0	0.00	0.00	0.00
13,900.0	89.48	89.91	9,312.2	-478.0	4,999.1	5.014.9	0.00	0.00	0.00
14,000.0	89.48	89.91	9,313.1	-477.8	5,099.1	5,114.8	0.00	0.00	0.00
14,100.0	89.48	89.91	9,314.0	-477.7	5,199.1	5,214.7	0.00	0.00	0.00
14,200.0	89.48	89.91	9,314.9	-477.5	5,299.1	5,314.6	0.00	0.00	0.00
14,300.0	89.48	89.91	9,315.8	-477.4	5,399.1	5,414.5	0.00	0.00	0.00
14,400.0	89.48	89.91	9,316.7	-477.2	5,499.1	5,514.4	0.00	0.00	0.00
14,500.0	89.48	89.91	9,317.6	-477.1	5,599.1	5,614.3	0.00	0.00	0.00
14,600.0	89.48	89.91	9,318.5	-476.9	5,699.1	5,714.2	0.00	0.00	0.00
14,700.0	89.48	89.91	9.319.4	-476.8	5,799.1	5,814.1	0.00	0.00	0.00
14,800.0	89.48	89.91	9,320.3	-476.6	5,899.1	5,914.0	0.00	0.00	0.00
14,900.0	89.48	89.91	9,321.2	-476.5	5,999.1	6,013.9	0.00	0.00	0.00
15,000.0	89.48	89.91	9,322.1	-476.3	6,099.1	6,113.8	0.00	0.00	0.00
15,100.0	89.48	89.91	9,323.0	<del>-4</del> 76.2	6,199.1	6,213.7	0.00	0.00	0.00
15,100.0	89.48	89.91	9,323.9	-476.0	6,299.0	6,313.6	0.00	0.00	0.00
15,200.0	89.48	89.91	9,324.9	-475.9	6,399.0	6,413,5	0.00	0.00	0.00
		89,91	9,325.8						
15,400.0 15,500.0	89.48 89.48	89.91	9,325.6	-475.7 -475.5	6,499.0 6,599.0	6,513.4 6,613.3	0.00	0.00 0.00	0.00
15,600.0	89.48	89.91	9,327.6	-475.4	6,699.0	6,713.2	0.00	0.00	0.00
15,700.0	89.48	89,91	9,328.5	-475.2	6,799.0	6,813.1	0.00	0.00	0.00
15,800.0	89.48	89.91	9,329.4	-475.1	6,899.0	6,913.0	0.00	0.00	0.00
15.900.0	89.48	89.91	9.330.3	-474.9	6,999.0	7,012.9	0.00	0.00	0.00
16,000.0	89.48	89.91	9,331.2	-474.8	7,099.0	7,112.8	0.00	0.00	0.00
16,100.0	89.48	89.91	9,332.1	-474.6	7,199.0	7,212.6	0.00	0.00	0.00
16,200.0	89.48	89.91	9,333.0	-474.5	7,299.0	7,312.5	0.00	0.00	0.00
16,300.0	89,48	89.91	9,333.9	-474.3	7,399.0	7,412.4	0.00	0.00	0.00
16,400.0	89.48	89.91	9,334.8	-474.2	7,499.0	7,512.3	0.00	0.00	0.00
16,500.0	89.48	89.91	9,335.7	-474.0	7,599.0	7,612.2	0.00	0.00	0.00
16,600.0	89.48	89.91	9,336.6	-473.9	7.699.0	7,712.1	0.00	0.00	0.00
16,700.0	89.48	89.91	9,337.5	-473.7	7,799.0	7,812.0	0.00	0.00	0.00
16,800.0	89.48	89.91	9,338.4	-473.5	7,899,0	7,911.9	0.00	0.00	0.00
16,900.0	89.48	89.91	9.339.3	-473.4	7,999.0	8,011.8	0.00	0.00	0.00
17,000.0	89.48	89.91	9,340.2	-473.2	8,099.0	8,111.7	0.00	0.00	0.00
17,100.0	89.48	89.91	9,341.1	-473.1	8,199.0	8,211.6	0.00	0.00	0.00
17,200.0	89.48	89.91	9,342.0	-472.9	8,299.0	8,311.5	0.00	0.00	0.00
17,300.0	89.48	89,91	9,342.9	-472.8	8,399.0	8,411.4	0.00	0.00	0.00
17,400.0	89,48	89.91	9,343.9	-472.6	8.499.0	8,511.3	0.00	0.00	0.00
17,500.0	89.48	89.91	9,344.8	-472.5	8,598.9	8,611.2	0.00	0.00	0.00
17,600.0	89.48	89.91	9,345.7	-472.3	8,698.9	8,711.1	0.00	0.00	0.00
17,700.0	89.48	89,91	9,346.6	-472.2	8,798.9	8,811.0	0.00	0.00	0.00
17,800.0	89.48	89.91	9,347.5	-472.0	8,898.9	8,910.9	0.00	0.00	0.00
17,900.0	89.48	89.91	9,348,4	-471.9	8,998.9	9,010.8	0.00	0.00	0.00
18,000.0	89.48	89,91	9,349.3	-471.7	9.098.9	9,110.7	0.00	0.00	0.00
18,100.0	89.48	89.91	9,350.2	-471.6	9,198.9	9,210.6	0.00	0.00	0.00
18,200.0	89.48	89,91	9,351.1	-471.4	9,298.9	9,310.5	0.00	0.00	0.00
18,300.0	89.48	89.91	9,352.0	-471,2	9,398.9	9,410.4	0.00	0.00	0.00
18,400.0	89.48	89.91	9,352.9	-471.1	9,498.9	9,510.3	0.00	0.00	0.00



**QES** 

Database: Company: EDM 5000.1 Single User Db Mewbourne Oil Company

Eddy County, New Mexico (Nad 83) Sec 18,T20S,R29E

Project: Site: Well:

Glock 17-16 W0DA Fed Com #3H

Wellbore: Design: Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Glock 17-16 W0DA Fed Com #3H WELL @ 3292.0usft (Patterson #250) WELL @ 3292.0usft (Patterson #250)

Grid

Minimum Curvature

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,500.0	89.48	89.91	9,353.8	-470.9	9,598.9	9,610.2	0.00	0.00	0.00
18,600.0	89.48	89.91	9,354.7	-470.8	9,698.9	9,710,1	0.00	0.00	0.00
18,700.0	89.48	89.91	9,355.6	-470.6	9,798.9	9,810.0	0.00	0.00	0.00
18,800.0	89.48	89.91	9,356.5	-470.5	9,898.9	9,909.9	0.00	0.00	0.00
18,900.0	89.48	89.91	9,357.4	-470.3	9,998.9	10,009.8	0.00	0.00	0.00
19,000.0	89.48	89.91	9,358.3	-470.2	10,098.9	10,109.7	0.00	0.00	0.00
19,100.0	89.48	89.91	9,359.2	-470.0	10,198.9	10,209.6	0.00	0.00	0.00
19,200.0	89.48	89.91	9,360.1	-469.9	10,298.9	10,309.5	0.00	0.00	0.00
19,300.0	89.48	89.91	9,361.0	-469.7	10,398.9	10,409.4	0.00	0.00	0.00
19,400.0	89.48	89.91	9,361.9	-469.6	10,498.9	10,509.3	0.00	0.00	0.00
19,500.0	89.48	89.91	9,362.9	-469.4	10,598.9	10,609.2	0.00	0.00	0.00
19,600.0	89.48	89.91	9,363.8	-469.3	10,698.9	10,709.1	0.00	0.00	0.00
19,700.0	89.48	89.91	9,364.7	-469.1	10,798.9	10,809.0	0.00	0.00	0.00
19,800.0	89.48	89.91	9,365.6	-468.9	10,898.9	10,908.9	0.00	0.00	0.00
19,900.0	89.48	89.91	9,366.5	-468.8	10,998.8	11,008.8	0.00	0.00	0.00
TD @ 1995	9' MD / 9367' T	VD							
19,958.7	89.48	89.91	9.367.0	-468.7	11,057.5	11,067.4	0.00	0.00	0.00

#### **Design Targets**

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-VV (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Target Glock 17-16 W - plan misses targe - Point	0.00 et center by	0.00 39.7usft at	8,811.6 8836.1usft	-485.8 MD (8815.3	205.2 TVD, -449.4	573,778.10 N, 189.8 E)	611,050.40	32° 34' 37.800 N	104° 6' 25.256 W
PBHL Glock 17-16 Wt - plan hits target ce - Point	0.00 enter	0.01	9,367.0	-468.7	11,057.5	573,795.20	621,902.70	32° 34' 37.723 N	104" 4' 18.424 W

Plan	Ann	otati	ione

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N/-S (usft)	+E/-W (usft)	Comment
3,025.0	3,025.0	0.0	0.0	Build 2°/100'
3,271.0	3,270.7	-9.7	4.1	EOB @ 4.92° Inc / 157,10° Azm
8,833,6	8,812,8	-449.2	189.7	Build 12°/100'
9,563,4	9,273.0	-484.7	662.7	EOB @ 89,48° Inc / 89.91° Azm / 9273' TVD
19.958.7	9,367,0	-468.7	11.057.5	TD @ 19959' MD / 9367' TVD