

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		<b>NM OIL CONSERVATION</b> State of New Mexico Energy, Minerals and Natural Resources <b>Oil Conservation Division</b> 1220 South St. Francis Dr. Santa Fe, NM 87505		<b>Form C-105</b> Revised April 3, 2017	
District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		<b>RECEIVED</b> DEC 04 2017		<b>CONFIDENTIAL</b>	

<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>																																									
4. Reason for filing:  <input checked="" type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only)  <input type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)						5. Lease Name or Unit Agreement Name <b>Cass 16 State</b>  6. Well Number:  <b>2H</b>																																			
7. Type of Completion: <input checked="" type="checkbox"/> <b>NEW WELL</b> <input type="checkbox"/> <b>WORKOVER</b> <input type="checkbox"/> <b>DEEPENING</b> <input type="checkbox"/> <b>PLUGBACK</b> <input type="checkbox"/> <b>DIFFERENT RESERVOIR</b> <input type="checkbox"/> <b>OTHER</b>						9. OGRID <b>372098</b>																																			
8. Name of Operator <b>Marathon Oil Permian LLC</b>						11. Pool name or Wildcat <b>Purple Sage; Wolfcamp (Gas)</b>																																			
10. Address of Operator <b>5555 San Felipe St., Houston, TX 77056</b>						12. Location <table border="1" style="width:100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th>Unit Ltr</th> <th>Section</th> <th>Township</th> <th>Range</th> <th>Lot</th> <th>Feet from the</th> <th>N/S Line</th> <th>Feet from the</th> <th>E/W Line</th> <th>County</th> </tr> <tr> <td><b>Surface:</b></td> <td><b>H</b></td> <td><b>17</b></td> <td><b>23S</b></td> <td><b>27E</b></td> <td><b>1649'</b></td> <td><b>N</b></td> <td><b>315'</b></td> <td><b>E</b></td> <td><b>Eddy</b></td> </tr> <tr> <td><b>BH:</b></td> <td><b>A</b></td> <td><b>16</b></td> <td><b>23S</b></td> <td><b>27E</b></td> <td><b>903' 964'</b></td> <td><b>N</b></td> <td><b>240' 241'</b></td> <td><b>E</b></td> <td><b>Eddy</b></td> </tr> </table>						Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County	<b>Surface:</b>	<b>H</b>	<b>17</b>	<b>23S</b>	<b>27E</b>	<b>1649'</b>	<b>N</b>	<b>315'</b>	<b>E</b>	<b>Eddy</b>	<b>BH:</b>	<b>A</b>	<b>16</b>	<b>23S</b>	<b>27E</b>	<b>903' 964'</b>	<b>N</b>	<b>240' 241'</b>	<b>E</b>	<b>Eddy</b>
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13. Date Spudded <b>7/23/2017</b>		14. Date T.D. Reached <b>8/9/2017</b>		15. Date Rig Released <b>8/16/2017</b>		16. Date Completed (Ready to Produce) <b>10/17/2017</b>		17. Elevations (DF and RKB, RT, GR, etc.) <b>3164'</b>																																	
18. Total Measured Depth of Well <b>14,080'</b>			19. Plug Back Measured Depth <b>14,025'</b>			20. Was Directional Survey Made? <b>Yes</b>		21. Type Electric and Other Logs Run <b>GR, CBL, Mud</b>																																	
22. Producing Interval(s), of this completion - Top, Bottom, Name <b>Wolfcamp</b>																																									
<b>23. CASING RECORD (Report all strings set in well)</b>																																									
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED																															
13 3/8"		54.50		432.5'		17 1/2"		500		175 sks																															
9 5/8"		40.0		1,963.3		12 1/4"		700		139 sks																															
7"		29.00		9,133.0'		8 3/4"		690		0.8 sks																															
4 1/2"		13.5		14,080.0'		6 1/8"		570		160 sks																															
<b>24. LINER RECORD</b>										<b>25. TUBING RECORD</b>																															
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET																																		
4.5"	8,426.8'	13,777'	552																																						
26. Perforation record (interval, size, and number)  Interval: 9,316 - 13,935' Size: 0.36" Number: 942					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>9,316' - 13,935'</td> <td>1,107 bbls - 15% HCl Acid</td> </tr> <tr> <td></td> <td>11,554,040 lbs. - Propanats, Sand</td> </tr> </table>						DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	9,316' - 13,935'	1,107 bbls - 15% HCl Acid		11,554,040 lbs. - Propanats, Sand																									
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<b>28. PRODUCTION</b>																																									
Date First Production <b>10/18/2017</b>		Production Method (Flowing, gas lift, pumping - Size and type pump) <b>Flowing</b>				Well Status (Prod. or Shut-in) <b>Producing</b>																																			
Date of Test 10/26/2017	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 1279	Gas - MCF 2153	Water - Bbl 6721	Gas - Oil Ratio																																		
Flow Tubing Press. 725	Casing Pressure 625	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)																																			
29. Disposition of Gas (Sold, used for fuel, vented, etc.) <b>Sold</b>							30. Test Witnessed By 																																		
31. List Attachments																																									
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:																																		
34. If an on-site burial was used at the well, report the exact location of the on-site burial:																																									
Latitude _____ Longitude _____ NAD83																																									
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief																																									
Signature <i>Jennifer Van Curen</i>			Printed Name Jennifer Van Curen			Title Sr. Regulatory Compliance			Date 11/21/17																																
E-mail Address jvancuren@marathonoil.com																																									

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This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinbry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

## OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....  
No. 2, from.....to.....  
No. 3, from.....to.....  
No. 4, from.....to.....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....  
 No. 2, from.....to.....feet.....  
 No. 3, from.....to.....feet.....

## LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

## Geological Tops

Cass 16 State 3H

	0'
Surface	110'
Rustler	250'
Salado	450'
Castile	1800'
Base Salt	1975'
Lamar	2100'
Delaware Sands (Bell Canyon)	2815'
Cherry Canyon	3975'
Brushy Canyon	5450'
Bone Spring Lime	6575'
FBSG Sand	6750'
2nd Carbonate	7050'
SBSG Sand	7225'
3rd Carbonate	8550'
TBSG Sand	8950'
Wolfcamp	