

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	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised April 3, 2017																
		1. WELL API NO. 30-015-42733																
		2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN																
		3. State Oil & Gas Lease No.																
WELL COMPLETION OR RECOMPLETION REPORT AND LOG																		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (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 Cass 16 State																
		6. Well Number: 2H																
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER																		
8. Name of Operator Marathon Oil Permian LLC		9. OGRID 372098																
10. Address of Operator 5555 San Felipe St., Houston, TX 77056		11. Pool name or Wildcat Purple Sage; Wolfcamp (Gas)																
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County								
Surface:	H	17	23S	27E		1649'	N	315'	E	Eddy								
BH:	A	16	23S	27E		983' 964'	N	240' 241'	E	Eddy								
13. Date Spudded 7/23/2017	14. Date T.D. Reached 8/9/2017		15. Date Rig Released 8/16/2017		16. Date Completed (Ready to Produce) 10/16/2017			17. Elevations (DF and RKB, RT, GR, etc.) 3164'										
18. Total Measured Depth of Well 14,080'			19. Plug Back Measured Depth 14,035'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run										
22. Producing Interval(s), of this completion - Top, Bottom, Name																		
23. CASING RECORD (Report all strings set in well)																		
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED								
13 3/8"		54.50		432.5' 445'		17 1/2"		500 C		50								
9 5/8"		40.0		1,963.3 1974'		12 1/4"		500 C		45								
7"		29.00		9,133.0'		8 3/4"		690 C		0.5								
4 1/2"		13.5		14,080.0'		6 1/8"		2,405 C		46								
24. LINER RECORD																		
SIZE	TOP	BOTTOM		SACKS CEMENT	SCREEN													
4.5"	8,426.8'	13,777'		552														
25. TUBING RECORD																		
SIZE	DEPTH SET		PACKER SET															
4.5"																		
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;"> <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>200,379 bbls. - Slickwater</td> </tr> <tr> <td></td> <td>11,554,040 lbs. - Propants, Sand</td> </tr> </table>					DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	9,316' - 13,935'	1,107 bbls. - 15% HCl Acid		200,379 bbls. - Slickwater		11,554,040 lbs. - Propants, Sand
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28. PRODUCTION																		
Date First Production 10/17/2017		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing												
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.) Sold						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																		

INSTRUCTIONS

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. Amph LAMAR 1975'	T. Canyon Cherry 2815'	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 1800'	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 3100 carb 7225'	T. Menefee	T. Madison
T. Grayburg	T. Montoya SBSG Sand 7050'	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson 2100 carb 7150'	T. Mancos	T. McCracken
T. Glorieta	T. McKee FBBSG Sand 6575'	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger C.S. Lime 5450'	Base Greenhorn	T. Granite
T. Blinberry	T. Gr. Wash Brushy C. 3975'	T. Dakota	
T. Tubb	T. Delaware Sand 2100'	T. Morrison	
T. Drinkard	T. Bone Springs 8550'	T. Todilto	
T. Abo	T. RUSTLER 110'	T. Entrada	
T. Wolfcamp 8950'	T. SALADO 250'	T. Wingate	
T. Penn	T. CASTLE 450'	T. Chinle	
T. Cisco (Bough C)	T. Permian	T. Permian	

* Please provide formation logs.

OIL OR GAS SANDS OR ZONES

No. 1, from... to...

No. 3, from... .. to... ..

No. 2, 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