Form 3160-4 (August 2007)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

MAR 18 2020

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

	WELL C	OMPL	ETION O	R REC	СОМ	PLETI		WR!	BL	e de la company	gag-	11	ESIA	5. Le N	ase Serial I MNM1073	No. 384		
la. Type of Well											6. If Indian, Allottee or Tribe Name							
b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.											esvr.							
Other 7. Unit or CA Agreement Name and No												ame and No.						
2. Name of Operator Contact: CINDY COTTRELL 8. Lease Name and Well No. MURCHISON OIL & GAS LLC E-Mail: ccottrell@jdmii.com ROCK RIDGE FEDERAL BSS 7																		
3. Address LEGACY TOWER ONE 7250 DALLAS PKY, STE 1400 3a. Phone No. (include area code) PLANO, TX 75024-5002 9. API Well No. 30-015-45731-00-000 30-015-45731-00-000000000000000000000000000000000												5731-00-S1						
4. Location of Well (Report location clearly and in accordance with Federal requirements)*												10. F	ield and Po	ool, or	Explo	ratory		
At surface NENE 785FNL 250FEL 32.193611 N Lat, 104.015999 W Lon												10. Field and Pool, or Exploratory PIERCE CROSSING-BONE SPRING 11. Sec., T., R., M., or Block and Survey						
At top prod interval reported below SENE 1349FNL 330FEL												-	or Area Sec 30 T24S R29E Mer NMP  12. County or Parish 13. State					
	depth Lot 1	1 1322FI	NL 318FWL											EDDY NM				
14. Date Spudded 06/10/2019 15. Date T.D. Reached 06/26/2019 16. Date Completed 06/26/2019 17. Elevations (DF, KB, RT 2914 GL 11/15/2019 17. Elevations (DF, KB, RT 2914 GL 2914 GL 2914 GL												', GL)*						
18. Total Depth: MD 13140 19. Plug Back T.D.: MD TVD 8398 TVD 20. Depth Bridge Plug Set: MD TVD																		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GAMMARAY  22. Was well cored? Was DST run? No Yes (Submit analysis Directional Survey? No Yes (Submit analysis												omit analysis)						
23. Casing ar	nd Liner Reco	rd (Repo	ort all strings	set in we	:11)													
Hole Size	Size/Gr	ade	Wt. (#/ft.)	Top (MD)		Bottom (MD)	1	tage Cementer Depth					Slurry (BB		Cement '	Cement Top*		mount Pulled
16.000	13.3	375 J55	48.0	0		370						400		95 0				
12.250	<del>1</del>	625 J55	36.0		의				$\dashv$	960		<del>†</del>	289			+-		
8.500	5.50	00 P110	20.0	0		13120					1790		563 1		1590	1590		
	<del> </del>				$\dashv$	<del></del>	<b></b>		$\dashv$	······································			┼		 		╫┈	
	<del> </del>						<del> </del>		$\dashv$				<del>                                     </del>		ļ	-	+-	
24. Tubing	Record						ــــــــــــــــــــــــــــــــــــــ						1		<u> </u>			
·····	Depth Set (M	(D) P	acker Depth	(MD)	Size	Size Depth Set (I			Packer Depth (MD)			D)	Size	Depth Set (MD)		Pack	er Depth (MD)	
																l		
25. Produci	ng Intervals					26	Perfor	ation I	Recor	rd			3					
	ormation		Тор	<del></del>		ottom		Perforated Interval				Size		No. Holes			rf. Status	
<u>A)</u>	BONE SPE	RING		8560		13085			8560 TO 130		1308	0.42		1056 OPE		<u>=N</u>		
B)	<del></del> ,			-								╁		-		╁╌		
<u>C)</u> D)			···									╁		+		1		
	racture, Treati	ment, Cei	ment Squeeze	e, Etc.				-								-		
	Depth Interva	ıl							An	nount and	d Type	of M	laterial	•				
·	856	0 TO 13	085 9,225,3	00# SD; 2	2,095 E	3BLS 15%	HCL AC	ID; 29	0,481	BBLS T	OTAL	WAT	ER VOLU	ME				
						-												
													•					
28 Product	ion - Interval	Δ															-	
Date First	Test	Hours	Test	Oil	Ga	ns T	Water	- 10	Oil Gra	vity	Т	Gas		Product	tion Method			
Produced	Date Tested Production BBL MCF BB		BBL	l l	Corr. API			Gravity		FLOWS FROM WELL								
11/15/2019 Choke	Tbg. Press.	Csg.	24 Hr.	0il	G:		1466 Water		49.7 Gas:Oil			Well Status						
			Rate	BBL		CF	BBL	Ratio					POW					
31/64 SI 1000.0 1064 974 1466 915 POW  28a. Production - Interval B																		
Date First	Test	Hours	Test	Oil	G	as	Water	Га	Oil Gra	avity		Gas		Produc	tion Method			
Produced	Date	Tested	Production	BBL		CF	BBL		Corr. A			Gravit	у					
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL		as ICF	Water BBL		Gas:Oi Ratio	il		Well S	itatus					

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #500234 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*



CHERRY CANYON 370 BRUSHY CANYON 514 AVALON SAND 662 BONE SPRING 1ST 751 BONE SPRING 2ND 831 BONE SPRING 3RD 938	28b. Proc	luction - Inter	val C							*		<del></del>			
Size   Poly										Production Method					
28c. Production - Interval D	OL 1				•			<u> </u>			<u> </u>				
Dee From Product   Dee   Test   Test   Production   New York   Dee   D	Size Flwg. Press.								"	Vell Status					
Treated   Date   Treated   Production   1881.   MCF   BBL   Corr. An'   Growing	28c. Proc	luction - Inter	val D	<u> </u>	1	•									
Piwe											Production Method				
30. Summary of Porous Zones (Include Aquifers):  Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, custion used, time tool open, flowing and shut-in pressures and recoveries.  Formation  Top  Bottom  Descriptions, Contents, etc.  Name  Top  Mean.  Top  Bone SPRING 2ND  8313  9382  Oil. & GAS  DELAWARE  CHERY CANNON  370  Mean.  AVALON SAND  642  BONE SPRING 1ST  50NE SPRING 1ST  751  BONE SPRING 1ST  751  BONE SPRING 3RD  32. Additional remarks (include plugging procedure):  33. Circle enclosed attachments:  1. Electrical Machanical Logs (I full set req'd)  5. Sundry Notice for plugging and cement verification  6. Core Analysis  7. Other:  34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):  Electronic Submission #500234 Verified by the BLM Well Information System.  Full RCHISDON Oil & GAS LLC, sent to the Carbshad  Committed to AFMSS for processing by DINAH NEGRETE on 63/17/2828 (20DCN0838E)  Name (please print) CINDY COTTRELL  Title REGULATORY COORDINATOR		Flwg.							W	Vell Status					
30. Summary of Porous Zones (Include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.  Formation Top Bottom Descriptions, Contents, etc. Name Top Meas. E  BONE SPRING 2ND 8313 9382 OIL & GAS  DELAWARE 276 CHERRY CANNON 370 BRUSHY CANNON 514 BONE SPRING 3ND 157 BONE SPRING 3ND 1662 BONE SPRING 3ND 167 BONE SPRING 3ND 938 WOLFGAMP 982  32. Additional remarks (include plugging procedure):  33. Circle enclosed attachments:  1. Electrical/Mechanical Logs (I full set req'4.) 2. Geologic Report 3. DST Report 4. Directional Survey 5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other:  34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):  Electronic Submit (Flow) 10 Line (School) 11 Line (School) 11 Line (School) 12 Line (School) 11 Line (School) 12 Line (School) 13 Line	29. Dispo	osition of Gas	(Sold, use	d for fuel, ven	ted, etc.)		<u>_</u>		•						
Show all important zones of proxisity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shuf-in pressures and recoveries.  Formation  Top  Bottom  Descriptions, Contents, etc.  Name  Top  Mess. I.  BONE SPRING 2ND  8313  9382  OIL & GAS  DELAWARE CHERRY CANYON 370  BRUSHY CANYON 514  AVALON SANYON 514  BONE SPRING 2ND  32. Additional remarks (include plugging procedure).  33. Circle enclosed attachments:  1. Electrical/Mechanical Logs (1 full set reqd.) 5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other:  34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):  Electronic Submission #500234 Verified by the BLM Well Information System.  For MURCHISON OIL & GAS LLC., sant to the Carlebad Committed to AFMSS for processing by DINAH NEGRETE on 03/17/2026 (20DC/0000308E)  Name (please print) CINDY COTTRELL  Title REGULATORY COORDINATOR			ıs Zones (l	nclude Aquife	ers):	-				31. For	mation (Log) Markers				
BONE SPRING 2ND 8313 9382 OIL & GAS  DELAWARE CHERRY CANYON 370 BRUSHY CANYON 514 AVAILAN SAND 662 BONE SPRING 3ND 682 BONE SPRING 3ND 683 BONE SP	Show tests,	all importan	t zones of	porosity and o	ontents there	eof: Corec	d intervals and en, flowing and	all drill-stem shut-in pressur	res			,			
32. Additional remarks (include plugging procedure):  33. Circle enclosed attachments:  1. Electrical/Mechanical Logs (1 full set req'd.)  2. Geologic Report  3. DST Report  4. Directional Survey  3. Sundry Notice for plugging and cement verification  6. Core Analysis  7. Other:  34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):  Electrical Submission #500234 Verified by the BLM Well Information System.  For MURCHISON OIL & GAS LLC, sent to the Carlsbad  Committed to AFMSS for processing by DINAH NEGRETE on 03/17/2020 (20DCN0030SE)  Title REGULATORY COORDINATOR		Formation		Тор	Bottom		Description	ns, Contents, e	tc.		Name				
1. Electrical/Mechanical Logs (1 full set req'd.)  2. Geologic Report  3. DST Report  4. Directional Survey  5. Sundry Notice for plugging and cement verification  6. Core Analysis  7 Other:  34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):  Electronic Submission #500234 Verified by the BLM Well Information System.  For MURCHISON OIL & GAS LLC, sent to the Carlsbad  Committed to AFMSS for processing by DINAH NEGRETE on 03/17/2020 (20DCN0030SE)  Name (please print) CINDY COTTRELL  Title REGULATORY COORDINATOR			s (include				DIL & GAS			CH BR AV BO BO BO	DELAWARE         2766           CHERRY CANYON         3703           BRUSHY CANYON         5145           AVALON SAND         6623           BONE SPRING 1ST         7519           BONE SPRING 2ND         8313           BONE SPRING 3RD         9382				
1. Electrical/Mechanical Logs (1 full set req'd.)  2. Geologic Report  3. DST Report  4. Directional Survey  5. Sundry Notice for plugging and cement verification  6. Core Analysis  7 Other:  34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):  Electronic Submission #500234 Verified by the BLM Well Information System.  For MURCHISON OIL & GAS LLC, sent to the Carlsbad  Committed to AFMSS for processing by DINAH NEGRETE on 03/17/2020 (20DCN0030SE)  Name (please print) CINDY COTTRELL  Title REGULATORY COORDINATOR	22 (0)1		1								<del></del>				
5. Sundry Notice for plugging and cement verification 6. Core Analysis 7 Other:  34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):  Electronic Submission #500234 Verified by the BLM Well Information System.  For MURCHISON OIL & GAS LLC, sent to the Carlsbad  Committed to AFMSS for processing by DINAH NEGRETE on 03/17/2020 (20DCN0030SE)  Name (please print) CINDY COTTRELL  Title REGULATORY COORDINATOR					ea'd.)		2. Geologic	Report		3. DST Re	nort 4. Directi	onal Survey			
Electronic Submission #500234 Verified by the BLM Well Information System. For MURCHISON OIL & GAS LLC, sent to the Carlsbad Committed to AFMSS for processing by DINAH NEGRETE on 03/17/2020 (20DCN0030SE)  Name (please print) CINDY COTTRELL Title REGULATORY COORDINATOR				•	• /		•	-		•	port 4. Directi	onar barvey			
,		•		Elect Committed	tronic Subm For M	ission #5 URCHIS	600234 Verified SON OIL & G	l by the BLM AS LLC, sent AH NEGRETI	Well Info to the C E on 03/1	ormation Sy arlsbad 17/2020 (20D	cN0030SE)	ions):			
Signature (Electronic Submission) Date 01/22/2020	INAIII	c (pieuse prin	, GINDT	JOTTRELL		,			NEGUL	.ATOKT 00	ORDINATOR				
	Sign	ature	(Electro	onic Submiss	sion)		Date <u>01/22/2020</u>								
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		•													

## Revisions to Operator-Submitted EC Data for Well Completion #500234

**Operator Submitted** 

**BLM Revised (AFMSS)** 

Lease:

NMNM107384

NMNM107384

Agreement:

Operator:

MURCHISON OIL & GAS LLC 7250 DALLAS PARKWAY STE 1400 PLANO, TX 75024 Ph: 972-931-0700

MURCHISON OIL & GAS LLC LEGACY TOWER ONE 7250 DALLAS PKY, STE 1400 PLANO, TX 75024-5002 Ph: 972.931.0700

Admin Contact:

CINDY COTTRELL REPORT PREPARER E-Mail: ccottrell@jdmii.com

Ph: 972-931-0700 Ext: 113

CINDY COTTRELL REGULATORY COORDINATOR

E-Mail: ccottrell@jdmii.com

Ph: 972.931.0700

Tech Contact:

CINDY COTTRELL REPORT PREPARER E-Mail: ccottrell@jdmii.com

Ph: 972-931-0700 Ext: 113

CINDY COTTRELL

REGULATORY COORDINATOR

E-Mail: ccottrell@jdmii.com

Ph: 972.931.0700

Well Name: Number:

**ROCK RIDGE FEDERAL BSS** 

**ROCK RIDGE FEDERAL BSS** 

Location:

State:

**EDDY** 

County: S/T/R:

Sec 30 T24S R29E Mer NMP

Surf Loc:

NENE Lot A 785FNL 250FEL

NM **EDDY** 

Sec 30 T24S R29E Mer NMP

PIERCE CROSSING-BONE SPRING

NENE 785FNL 250FEL 32.193611 N Lat, 104.015999 W Lon

Field/Pool: Logs Run: PIERCE CROSSING; BS S

**GAMMARAY** 

**Producing Intervals** 

**GAMMA RAY** Formations:

**BONE SPRING** 

**BONE SPRING** 

Porous Zones:

2ND BONE SPRING

**BONE SPRING 2ND** 

Markers:

**DELAWARE** 

CHERRY CANYON
BRUSHY CANYON
AVALON SHALE
1ST BONE SPRING SAND
2ND BONE SPRING SAND
3RD BONE SPRING SAND

WOLFCAMP

DELAWARE CHERRY CANYON BRUSHY CANYON AVALON SAND BONE SPRING 1ST BONE SPRING 2ND BONE SPRING 3RD WOLFCAMP