RECEIVED:	REVIEWER: TO A	TYPE: DI C	APP NO:
11/13/20	DM	PLC	nDM2031858995
11/13/20			pD1v12031030773

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Geological & Engineering Bureau – 1220 South St. Francis Drive, Santa Fe, NM 87505



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ADMINISTRATIVE AFF	LICATION CHECKLIST
THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIV REGULATIONS WHICH REQUIRE PROCESSI	/E APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND NG AT THE DIVISION LEVEL IN SANTA FE
Applicant: XTO Permian Operating LLC	OGRID Number: <u>373075</u>
Well Name: James Ranch Unit DI1 and James Ranch Unit	t DI1A;Multiple wells API: Multiple
Pool: WWC G-07 S2230216; Bone Spring & Los Medanos;	Wolfcamp Pool Code: 97905 & 96597
SUBMIT ACCURATE AND COMPLETE INFORMATION INDICATE	REQUIRED TO PROCESS THE TYPE OF APPLICATION
1) TYPE OF APPLICATION: Check those which apple A. Location – Spacing Unit – Simultaneous Dec NSL NSP (PROJECT AREA)	
B. Check one only for [1] or [1] [1] Commingling – Storage – Measuremen DHC CTB PLC PC [11] Injection – Disposal – Pressure Increase WFX PMX SWD IPI	□ols □olm
2) NOTIFICATION REQUIRED TO: Check those which A. Offset operators or lease holders B. Royalty, overriding royalty owners, revered complete continuous published notice point of the concurrent approved. Notification and/or concurrent approved. Notification and/or concurrent approved. Surface owner G. For all of the above, proof of notification notice required	n apply. Notice Complete Application Content Complete
 CERTIFICATION: I hereby certify that the informa administrative approval is accurate and comple understand that no action will be taken on this on notifications are submitted to the Division. 	ete to the best of my knowledge. I also
Note: Statement must be completed by an indivi	idual with managerial and/or supervisory capacity.
Tracie J. Cherry, Regulatory Coordinator	11/13/20 Date
Print or Type Name	432-221-7379 Phone Number
Signature Signature	tracie_cherry@xtoenergy.com e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107-B Revised August 1, 2011

OIL CONSERVATION DIVISION

1220 S. St Francis Drive Santa Fe, New Mexico 87505 Submit the original application to the Santa Fe office with one copy to the appropriate District Office.

APPLICATIO	ON FOR SURFACE	COMMINGLING	(DIVERSE	OWNERSHIP)	
	Permian Operating L				
	Holiday Hill Rd. Bldg	5 Midland, TX 797	07		
APPLICATION TYPE:					
☐ Pool Commingling ☐ Lease Comm	ingling Pool and Lease Co	mmingling Off-Lease	Storage and Measur	ement (Only if not Surface	e Commingled)
LEASE TYPE:	State Fede				
Is this an Amendment to existing C	order? Yes No If	"Yes", please include	he appropriate O	rder No	
Have the Bureau of Land Managen ☑Yes ☐No	nent (BLM) and State Land	d office (SLO) been not	tified in writing o	of the proposed comm	ingling
		OL COMMINGLIN s with the following in			
(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production		Calculated Value of Commingled Production	Volumes
WC G-07 S2230216;Bone Spring (97	905 See Attached				
Los Medanos; Wolfcamp (96597)					
		1			
		1			
(4) Measurement type: Metering (5) Will commingling decrease the vi	g ☑ Other (Specify) Alloca alue of production? ☐ Yes	tion by test ☑No If "yes", descri	be why commingli	ng should be approved	
		SE COMMINGLIN s with the following in			
 Pool Name and Code. Is all production from same source. Has all interest owners been notified. Measurement type:	ed by certified mail of the prop	osed commingling?	□Yes □No)	
		LEASE COMMIN			
(1) Complete Sections A and E.	r icase attacii sneet	s with the following ir	uormauon		
	(D) OFF-LEASE ST Please attached shee	ets with the following			
 Is all production from same source Include proof of notice to all inter 	e of supply? Yes N	0			

(E)	ADDITIONAL INFO Please attach sheet	RMATION (for all swith the following in		pes)	
(1) A schematic diagram of facility, i			: an 1 : -		
(2) A plat with lease boundaries show(3) Lease Names, Lease and Well Nu		ons. Include lease numbe		te lands are involved.	
I hereby certify that the information abo	ve is true and complete to the	best of my knowledge and	d belief.		
SIGNATURE: Anil Gra		TLE: Regulatory Co		DATE: 11/13	3/20
TYPE OR PRINT NAME Tracie J.	Cherry		TELI	EPHONE NO.: 432-22	1-7379
E-MAIL ADDRESS: tracie_cherry	@xtoenergy.com				

Well Name	BOPD	Oil Gravity @60 deg.	BOPD X gravity	Value /BBL	MCFPD	Dry BTU	MCFPD X BTU	Value/meived by
JRU DI 1 127H	230	43.6	10028		1000	1260	1260000	eive
JRU DI 1 157H	250	43.6	10900		300	1260	378000	d by
JRU DI 1 161H	250	43.6	10900		1500	1260	1890000	0
JRU DI 1 169H	275	43.6	11990		1200	1260	1512000	OCD:
JRU DI 1 213H	950	43.6	41420	2	1500			
JRU DI 1A 203H	600	43.6	26160		1600			13/2
JRU DI 1A 204H	500	43.6	21800		1600	1260		020
JRU DI 1A 206H	800	43.6	34880		1800			- 2
JRU DI1 7W 210	1300	43.6	56680		2000	1260	2520000	3:01
JRU DI1 7E 211H	1200	43.6	52320		1800		2268000	PA
JRU DI1 7W 212H	900	43.6	39240		1600	1260	2016000	
JRU DI 1 503H 1	1200	45	54000		2400	1300	3120000	
JRU DI 1 700H 2	1200	45	54000		2400	1300		
JRU DI 1 701H 2	1200	45	54000		2400	1300	3120000	
JRU DI 1 702H 2	1200	45	54000		2400	1300		
JRU DI1A ENNIS 111H	2400	50	120000		4465	1400	6251000	
JRU Ennis DI1A 112H	2400	50	120000		4465	1400	6251000	
JRU Ennis DI1A 113H	2400	50	120000		4465	1400	6251000	
JRU Ennis DI1A 114H	2400	50	120000		4465	1400	6251000	
JRU Ennis DI1A 115Y	2400	50	120000		2723	1400	3812200	
JRU Ennis DI1A 904H 3	2400	45	108000		3000	1300	3900000	
JRU Ennis DI1A 805H 3sh	1175	45	52875		2300	1300	2990000	
Composite	27630	46.803945	1293193		51383		68220200	

All crude oil for this battery with API between 44.1 and 50 will be sold as WTI Light. Price is based on commodity pricing at time of sale. No difference in the realized price or quality is expected.

Price for MMBTU is the combined BTU value at the sales meter. Given the similarity of BTU contents, there should be no significant price difference or sensitivity to allocation factors. Price is determined by commodity pricing at time of sale. Wells are not producing at this time.

Process Flow and Measurement

Each well will flow from its respective location to an inlet header on the South side of the facility. Wells will be directed to either a test separator or a bulk production separator. Oil production will be measured off of each test separator using a Coriolis test meter. Gas will be measured using an Electronic Flow Meter and water will be measured using a mag meter. After separation, oil from the wells in test will combine in a shared line and routed to one of two (2) horizontal heater treaters, through a vapor recovery tower and be transferred into the oil pipeline using a LACT unit. Production is allocated to each well based on the volume recorded on each well's Coriolis test meter and the volume recorded at the LACT unit. The LACT unit will be the FMP for oil at this facility. The LACT unit is installed and proven per 43 CFR 3174 requirement.

For wells not in test, production is directed to a 'bulk' production separator and into the shared oil line with the production from the test separators (downstream of the test meters) to be routed through the VRT and to the tanks.

There are four (4) 750 bbls storage tanks on location for oil storage if either of the LACT units are taken off line for maintenance or if any other operational upset occurs.

Gas from the separation equipment flows to a shared gas line that is routed to either the gas sales line or, in the event of limited pipeline capacity or emergency, a metered flare on location. Production is allocated to each well based on the volume recorded at gas EFM test meter and the volume recorded at the sales meter. The gas sales meter will be the FMP for gas at this facility. All EFM gas meters will be installed and calibrated per API and 43 CFR 3175 requirement.

Water production from the wells is routed to a shared water line and flows to storage tanks on location. Water then enters a main SWD system pipeline.

Variance Request

XTO is requesting this variance to produce the Wolfcamp wells, along with the 6th Revised Bone Spring PA wells (NMNM70965H) into the James Ranch DI1A Battery until such time as XTO's submission through the 8th Revised Bone Spring Participating Area, and revised Wolfcamp Participating Area, covering the same surface area is approved by BLM and State Land Office.

Until the Wolfcamp Participating Area is in effect thus forming a common base of ownership, the wells will be considered "diversely owned". XTO is also petitioning the NMOCD for approval to allocate production to these diversely owned wells using a well test method. Initially, the first three (3) Wolfcamp wells (114H, 115Y & 904H) will have dedicated metering and separation until the remaining Wolfcamp wells (111H, 112H & 113H) are brought online in approximately 12 months. At that time, the Wolfcamp wells will transition to a bulk and test method. Wells will be tested in accordance with the testing schedule and decline curves attached to this application.

XTO also requests approval to add future wells and leases to this commingle approval and allocate production by well test method until the Participating Areas are finalized. Interest owners of wells to be added will be furnished notice.

All Bone Spring wells will be in an established Participating Area and production will immediately be allocated using a bulk and test method.

The existing Bone Spring PA NMNM70965H currently contains 80 acres (1.6667%) of State of New Mexico minerals. The potential for royalty impact on the Wolfcamp wells will be negligible. Once the Participating Areas are finalized, the appropriate CAA will be submitted.

The proposed measurement and allocation proposal will not result in the in reduced royalty or improper measurement of production.

Based on historical performance, the commingling of production from the Bone Spring and Wolfcamp formations will not result in a reduction of royalty value. The majority of the production into the James Ranch Unit DI1A Battery will be from the Bone Spring formation. The blending of the production from the two formations is not expected to have any impact on the value of the production.

The commingling of production is in the interest of conservation and minimizing waste and will result in the most effective and economic means to maximize the ultimate economic recovery of the reserves in place from the affected wells. The proposed commingling and allocation will not result in reduced royalty or improper measurement. The proposed commingling will reduce the surface facility footprint and overall emissions.

Approval to commingle production from the wells flowing to the facility will avoid the need to request multiple CAA applications until the final PAs are established.

Attachment to Certified Mailing List

LEE M BASS DBA 201MT O AND G LLC
THE BASS SICKEL 2016 CHILDRENS TRUST
32 MINERAL I BPEOR NM LLC
32 MINERAL II BPEOR NM LLC

BMT I BPEOR NM LLC

BMT II BPEOR NM LLC

CAPITAL PARTNERSHIP II (CTAM)

CTV CTAM BPEOR NM LLC

CTV LMB I BPEOR NM LLC

CTV LMB II BPEOR NM LLC

CTV SRB I BPEOR NM LLC

CTV SRB II BPEOR NM LLC

KEYSTONE CTAM BPEOR NM LLC

KEYSTONE RMB BPEOR NM LLC

LMBI I BPEOR NM LLC

LMBI II BPEOR NM LLC

SRBI I BPEOR NM, LLC

SRBI II BPEOR NM LLC

SRBMT O&G NM LLC

THE ANNE CHANDLER BASS EVANS 2016 CHILDRENS TRUST

THE CHRISTOPHER MADDOX BASS CHILDRENS TRUST

THE TIMOTHY RICHARDSON BASS 2016 CHILDRENS TRUST

THRU LINE BPEOR NM LLC

WD I BPEOR NM LLC

WD II BPEOR NM LLC

2016 HYATT BASS FAMILY TRUST

2016 SAMANTHA BASS FAMILY TRUST

Per the letter attached, interest owners associated with the Bass Family of companies have agreed to a single application sent to Mr. Hugh C. Montgomery, Director of Land rather than be notified individually.

WELL LIST XTO PERMIAN OPERATING LLC JAMES RANCH UNIT DI1A BATTERY

Well Name (Property Code)	API	Pool (Pool Code)	Loc ¼, ¼, Sec. Twp, Rng		
James Ranch Unit DI1 157H	30-015-42607	WC G-07 S2230216; Bone	SHL: SWNE Sec 21 22S-30E		
(325535)		Spring (97905)	BHL: SWNW Sec 19 22S-30E		
James Ranch Unit DI1 161H	30-015-43607	WC G-07 S2230216; Bone	SHL: SWNE Sec 21 22S-30E		
(325535)		Spring (97905)	BHL: SESW Sec 14 22S-30E		
James Ranch Unit DI1 169H	30-015-42628	WC G-07 S2230216; Bone	SHL: SWNE Sec 21 22S-30E		
(325535)		Spring (97905)	BHL: SESW Sec 14 22S-30E		
*James Ranch Unit DI1 BS2A 5W 210H (325537) (James Ranch Unit DI1 210H)	30-015-45398	WC G-07 S2230216; Bone Spring (97905)	SHL: SWNE Sec 21 22S-30E BHL: NESW Sec 19 22S-30E		
*James Ranch Unit DI1 BS2A 7E 211H (325538) (James Ranch Unit DI1 211H)	30-015-45399	WC G-07 S2230216; Bone Spring (97905)	SHL: SWNE Sec 21 22S-30E BHL: SWSW Sec 19 22S-30E		
*James Ranch Unit DI1 BS2A 7W 212H (325539) (James Ranch Unit DI1 212H)	30-015-45396	WC G-07 S2230216; Bone Spring (97905)	SHL: SWNE Sec 21 22S-30E BHL: SWSW Sec 19 22S-30E		
*James Ranch Unit DI1 BS1 3E 212H (325539) (James Ranch Unit DI1 213H)	30-015-45397	WC G-07 S2230216; Bone Spring (97905)	SHL: SWNE Sec 21 22S-30E BHL: NESW Sec 19 22S-30E		
James Ranch Unit DI1 503H	30-015-47007	WC G-07 S2230216; Bone	SHL: SENE Sec 21 22S-30E		
(325535)		Spring (97905)	BHL: SENE Sec 23 22S-30E		
*James Ranch Unit DI1 BS2B 8E 212H (325539) (James Ranch Unit DI1 701H)	30-015-45462	WC G-07 S2230216; Bone Spring (97905)	SHL: SENE Sec 21 22S-30E BHL: SESW Sec 23 22S-30E		
*James Ranch Unit DI1 BS2B 6E 212H (325539) (James Ranch Unit DI1 702H)	30-015-45461	WC G-07 S2230216; Bone Spring (97905)	SHL: SENE Sec 21 22S-30E BHL: SESW Sec 23 22S-30E		
James Ranch Unit DI1 BS2B 5E 214H	30-015-45351	WC G-07 S2230216; Bone	SHL: SWNE Sec 21 22S-30E		
(325532)		Spring (97905)	BHL: NESW Sec 23 22S-30E		
James Ranch Unit DI1 127H	30-015-43231	WC G-07 S2230216; Bone	SHL: SENE Sec 21 22S-30E		
(325535)		Spring (97905)	BHL: SENW Sec 23 22S-30E		
James Ranch Unit DI1A 203H	30-015-43237	WC G-07 S2230216; Bone	SHL: SENW Sec 21 22S-30E		
(325542)		Spring (97905)	BHL: NENW Sec 23 22S-30E		
James Ranch Unit DI1A 204H	30-015-43240	WC G-07 S2230216; Bone	SHL: SWNE Sec 21 22S-30E		
(325542)		Spring (97905)	BHL: SENW Sec 23 22S-30E		
James Ranch Unit DI1A 206H	30-015-43236	WC G-07 S2230216; Bone	SHL: SENWSec 21 22S-30E		
(325542)		Spring (97905)	BHL: SWNW Sec 23 22S-30E		
James Ranch Unit DI1A Ennis 904H	30-015-45617	WC G-07 S2230216; Bone Spring (97905)	SHL: SWNE Sec 21 22S-30E BHL: SESW Sec 23 22S-30E		

WELL LIST XTO PERMIAN OPERATING LLC JAMES RANCH UNIT DI1A BATTERY

Federal Leases: NMNM02953, MNM02953B, NMNM069877A, NMNM06808, NMNM02953B, NMNM02953A, NMNM02953, NMNM02953B, NMNM02953, NMNM0300, NMLC064827A State Lease: E062920008

Well Name (Property Code)	API	Pool (Pool Code)	Loc ¼, ¼, Sec. Twp, Rng
*James Ranch Unit DI1A WCY 7E 222H (325547) (James Ranch Unit DI1A Ennis 111H)	30-015-45612	Los Medanos; Wolfcamp (Gas) (96597)	SHL: SWNE Sec 21 22S-30E BHL: SESW Sec 14 22S-30E
*James Ranch Unit DI1A WCY 1E 219H (325544) (James Ranch Unit DI1A Ennis 112H)	30-015-45613	Los Medanos; Wolfcamp (Gas) (96597)	SHL: SWNE Sec 21 22S-30E BHL: NENW Sec 23 22S-30E
*James Ranch Unit DI1A WCY 3E 220H (325545) (James Ranch Unit DI1A Ennis 113H)	30-015-45614	Los Medanos; Wolfcamp (Gas) (96597)	SHL: SWNE Sec 21 22S-30E BHL: SWNW Sec 23 22S-30E
James Ranch Unit DI1A Ennis 114H	30-015-45615	Los Medanos; Wolfcamp (Gas) (96597)	SHL: SWNE Sec 21 22S-30E BHL: NESW Sec 23 22S-30E
James Ranch Unit DI1A Ennis 115Y	30-015-47514	Los Medanos; Wolfcamp (Gas) (96597)	SHL: SWNE Sec 21 22S-30E BHL: SESW Sec 23 22S-30E

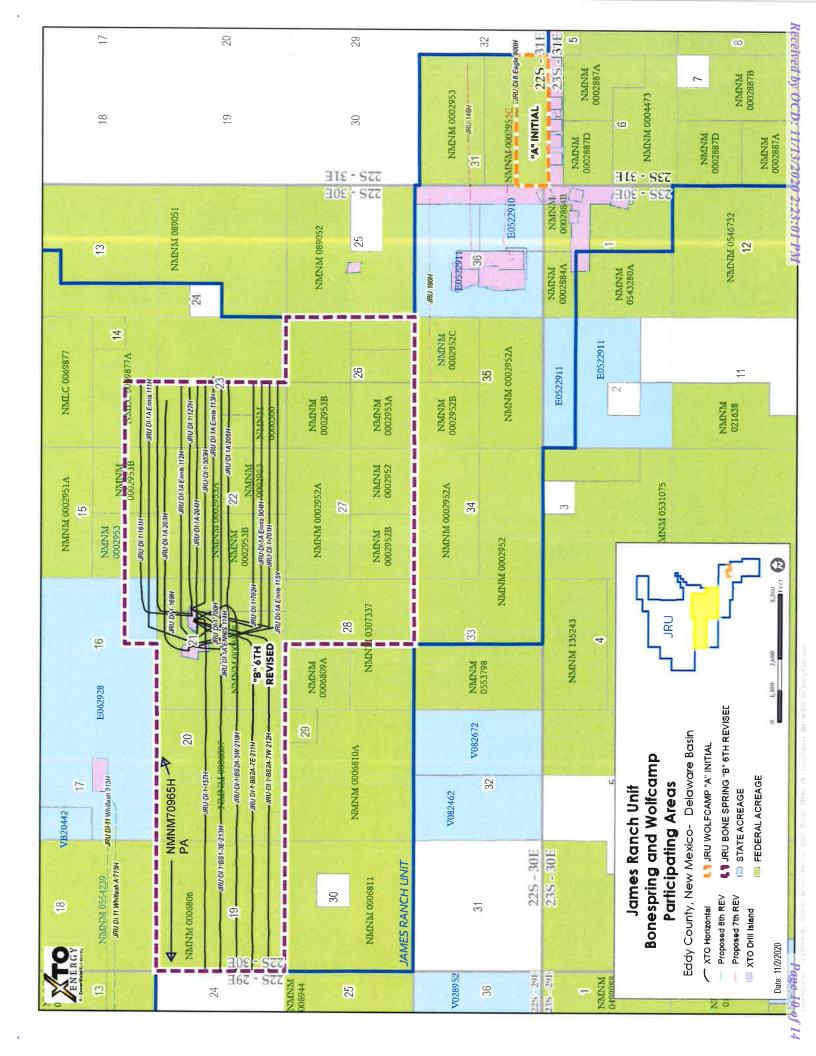
^{*}Wells marked with an asterisk have well name and number changes pending. New well name is shown in parenthesis.

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JAMES RANCH UNIT DI 1 & JAMES RANCH UNIT DI 1A



NE/4 NE/4	SE/4 NE/4	NS/4 SE/4	SE/4 SE/4	23 NE/4 NE/4	SE/4 NS/4	NE/4 SE/4	SE/4 SE/4
NW/4 NE/4	SW /4 NE/4	NW/4 SE/4	- V3S VAS	SEC.	SW /4 NE/A	NMLC 0064827A NW/4 SE/4	N 88 / 88/4
NE/4 NW/4	SE/A NW /A	NMLC 0069877A NE/4 SW/4	SE /4 SH/4	NE/4 NE/4	SEM W/A	NE/4 SW/4	2/25.2/29
NW/4 NW/4	1/ NW // NS	NW/4 SW/4	V/AS V/AS	NW/4 NW/4	SW/A NW/A	NW/4 SW/4	0000300 2874 5874
NE/A NE/A	SE/4 NS/4	NE/4 SE/4	85/4 85/4	NE/4 NE/4	SE/4 NE/4 SS32-SP472W	79846* 866714* N8 /4 SS /4	144 SE/4 SE/4
NW /4 NE/4	SW/A NE/A	NMNM 0002953B NW /4 SE/4	S# /4 SE /4 W.13.2.1607.00	SEC. 22 NW/A NE/A 0002953A	SW/4 NE/4	T.A.T. = 32273846. - DNE. = 1005.00007744 NW/4 SE/4 NW/N	F/3S F/MS
NE/4 NF/4	SE/4 NW/A	NMNM 0002953 NE/4 SW/4	SEP /4 SEP /4 LINE - REMOVER UNIT DI 1 15 IH JAMES RANCH UNIT DI 1A ENNIS 11 IH	JAMES RANCH UNIT DI 17 168H. NT 4 NV 1 NV 1 303H. NT 4 NV 1 NV 1 303H. ANE SHAPE UNIT DI 15 12H. JAMES RANCH UNIT DI 15 ENNIS 112H. JAMES RANCH UNIT DI 1 127H.	SPLA ARTA CHAIL UNIT OF 1A 2044 SPLA ARTA CHAIL SESSION SPLA WHA JAMES RANCH UNIT OF 1 SO3H JAMES RANCH UNIT OF 1 YOUR JAMES BANCH UNIT OF 1 YOUR	LANES RANCH UNIT DI LA 200H LAI. BESTRUTI. LING. 108 P7437 ANES S RIVA NELA STEVA NEL	- - 25 -
NW/4 NW/4	SW /4 NW /4	1/18 SE/14	SW /4 SW /4 LMT - \$2,000/49. LDMC - NDEDSHIES JAMES RANCH UNITED JAMES RANCH UNITED	JAMES RANCH UNIT DI 11-168H MAYA NY AN WAYA NA ZOSH NEZA SANCH UNIT DI 12 SHINE LOGA ROSHINSE! JAMES RANCH UNIT DI 17 ENNIS JAMES FANCH UNIT DI 17 ENNIS	SRIF MARCH LIMIT (D. 14. 2004) SRIF MR ACOG. * (DARSIASSES SR. JAMES RANCH LIMIT (D. 15. 20.3) JAMES RANCH LIMIT (D. 14. EURIS) JAMES RANCH LIMIT (D. 14. EURIS)	JAMES RANCH LINT DI LA 2006. LAI 26.27984: LING 109 PX437 JAMES FRANCH LINT DI LA ENVI	SN /4 SN /4 JAMES RANCH UNIT DI 1A JAMES RANCH UNIT DI 1A CALL RESIDENCE RANCH UNIT DI 1A NAKKIR DO029538
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NW/4 NE/4	SW/4 NE/4	NW /4 SE/A	SW/4 SE/4	1/2W 1/4W			1/38/V/AS
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NW 6/ WW /4	V/AN V/AS	Na/4 Sa/4	SW/4 SW/4	NW/4 NW/4 NMNM SEC.	SN/4 NW/4	NW/4 SW/4	1745 174S
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NW/4 NE/4	SW/4 NE/4	SEC. 17 STATE MT/A SE/A E062920008	SW/4 SB/4	NW /4 NW /4 NE/4 SEC. 20 T22S R30E	AMES RANCH LINNT DT 1157H NINNIN ODOBBOT NAMES RANCH LINNIN ODOBBOT	/4 SW/4 NWT Di 1 210H /4 SW/4 NWT/4 SE/4 /AMES RANCH JANT Di 1 211H	E/A SB/A SB/A SB/A
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NW /4 NW /4	SW/4 NW/4 VB20440002	NW A SW A	NAS NAS	NW/4 NW/4	SW // NW /4	NW /4 SW /4	SW /4 SW /4
NE/4 NE/4	SE/1 NE/4	NE/4 SE/4	SE/4 SE/4	NB/4 NB/4	SE/4 NE/4 LAT= 32379564'N LDNG= 103-914497'V	SEC. 19 NE/4 SE/A LAT= 3E 375339"N	SE/4 SE/4 LAT 26.37231.47 LDN- 30.394522**
NW/4 NE/4	S# /4 NE /4	SEC. 18	138 H 88	NW/4 NE/4	S# /4 NE/4 0006806	NW /4 SE/4	S#/4 3E/4
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101.1	107.2	107.8	107 4	1 107	2 101 2	707.3	107.4



Application to Surface Commingle XTO Permian Operating James Ranch Unit D11A Battery Eddy County, NM

		>	19,841	29,547	25,100	17,031	38,941	39,405	39,644	42,336	49,172	43,413	43,443				
	October*	_G	31,176	9,778	38,875	29,225	35,933	40,572	46,823	41,974	55,190	49,081	48,887	is date.	uodn th		
		0	7,326	-	-	\vdash	45,553	_	-	-	32,932	-	-	CD as of th	vary slight		
		>	19,253	32,959	26,677	22,494	37,314	44,768	40,802	46,499	51,076	47,876	48,524	*Volumes not reported to NMOCD as of this date.	and coulc		
	September*	U	30,920		29,427	-	36,218	45,809	50,186	41,719 4	51,665	49,031	48,887	ot report	finalize	submittal	
	Set	0	7,473		-	-	14,718	2,294 4	21,813 5	28,834 4	33,978 5	32,322 4	-	*Volumes r	Volumes no 'finalized' and could vary slightly upon	finial C115 submittal	
		M	15,104	35,382	25,107	27,196	43,699	50,831	52,220	65,279	67,164	37,123	62,300				
E	August	_o	39,837	29,239 3		37,407 27		74,938 5(76,057 52	54,420 6	60,441 67	66,088 37	61,624 62				
Past 6 Months Production	Ą	0	7,194 39		10,315 35	-	_	21,993 74	24,093 76	33,715 54	36,241 60	99 698'68	37,320 61				
Months																	
Past 6		>	10,430	26,592			40,869	49,142	59,305	76,665	82,232	82,310	78,341				
	July	_G	27,197	19,339	20,199	29,375	_	60,689	78,633	57,771	63,159	68,757	64,238				
		0	4,604	6,200	6,645	3,605	15,204	20,613	27,228	35,274	45,735	46,865	44,774				
		*	14,418	43,856	23,319	15,866	37,080	31,876	67,571	33,267	38,680	30,094	26,341				
	June	5	27,313	36,618	41,190	38,723	38,312	38,747	78,519	21,486	25,999	20,167	16,346				
		0	5,459	17,707	9,409	3,833	13,133	13,207	29,852	15,346	16,608	11,783	14,024				
		8	13,871	46,190	20,628	14,512	39,743	48,875	47,310								
	Мау	_o	10,340		-	28,776	42,446	26,205	53,894								
		0	5,107	16,372	10,484	4,802	16,985	22,463	21,952								
	Wtr		487,521	629,358	7,222,844	571,642	1,048,680	183,424	1,109,476	264,046	288,324	270,816	258,949				
Cumulative	Gas		676,229		m		\exists	922,810	αn	217,370	256,454	253,124	239,982				
ರ	0il		267,542			253,348	472,099			140,927	165,494	161,550	160,021				
	Prod. Start		4/23/18	3/23/18	4/3/18	4/3/18	6/12/19	6/11/19	6/12/19	6/21/20	6/21/20	6/23/20	6/30/20				
	Well	James Ranch Unit	DI1 127H	DI1 157H	DI1 161H	DI1 169H	DI1A 203H	DI1A 204H	DI1A 206H	DI1 3E 213H	DI1 5W 210H	DI1 7E 211H	DI1 7W 212H				



Date: November 12, 2020

To: Cherry, Tracie

From: Adnan Athira

Re: JRU DI1A Battery Producers Forecasted Declines

Proposed JRU DI1A Battery Producers: DI1A Ennis 111H, 112H, 113H, 114H, and 115Y Eddy

County, New Mexico

Regarding the application for a pool/lease commingle for the wells producing to the JRU DI1A Battery, the production decline of the wells is in accordance with the production decline presented in Order R-14299.

During initial production, production will be allocated based on a minimum of ten (10) well tests per month

During the plateau period, the oil and gas production for each well shall be allocated using a minimum of three (3) well tests per month.

During the decline period, the oil and gas production for each well shall be allocated as follows:

- (a) a minimum of three (3) well tests per month when the decline rate is greater than 22% per month;
- (b) a minimum of two (2) well tests per month when the decline rate is between 22% and 10% per month; and
- (c) a minimum of one (1) well test per month when the decline rate is less than 10% per month

The five wells attached to this forecast have been drilled but yet to be put online. Average type curves for 10kft Wolfcamp Y and 10kft Wolfcamp A wells are shown, summary detail of decline parameters for each of the 5 wells are also captured in tabular format below each chart.

Reservoir Engineer

Adnan Athira

Delaware Basin Subsurface Team

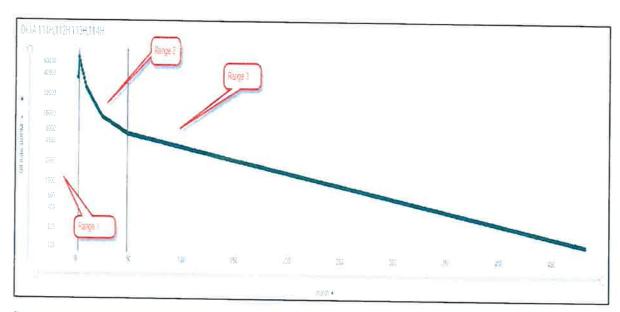


Figure 1: Hyperbolic Decline Forecast (Oil) for JRUDI1A 111H, 112H, 113H, and 114H Wolfcamp Y @ 10,000ft

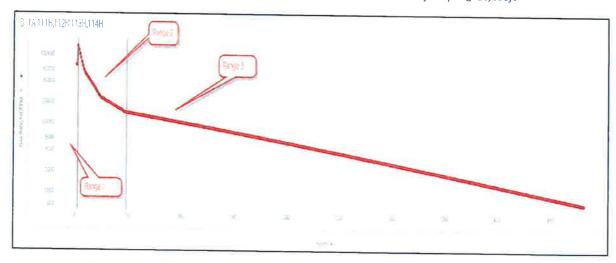


Figure 2: Hyperbolic Decline Forecast (Gas) for JRUDI1A 111H, 112H, 113H, and 114H Wolfcamp Y @ 10,000ft

Table 1: Forecast Parameter for JRUDI1A 111H, 112H, 113H, and 114H Wolfcamp Y @10,000ft

Forecast Parameters		
Qi	2,400 BOPD	4,465 MCFD
De	0.75	0.75
В	1.10	1.10
D _{min}	0.10	0.10

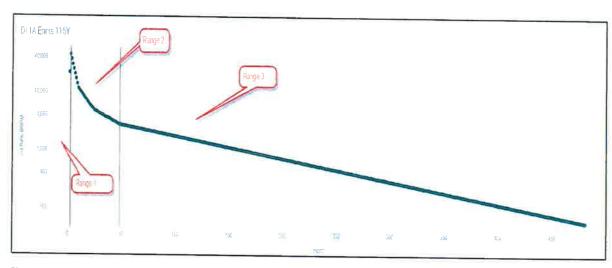


Figure 3: Hyperbolic Decline Forecast (Oil) for JRUDI1A 115Y Wolfcamp A @10,000ft

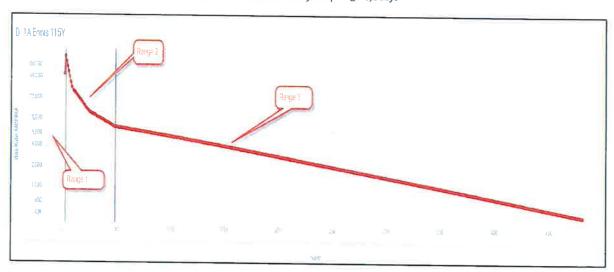


Figure 4: Hyperbolic Decline Forecast (Gas) for JRUDI1A 115Y Wolfcamp A @10,000ft

Table 2: Forecast Parameter for JRUDI1A 115Y Wolfcamp A @10,000ft

Forecast Parameters		
Qi	1,500 BOPD	2,723 MCFPD
De	0.77	0.77
В	1.0	1.0
D _{min}	0.10	0.10