MAM

2/25/2015

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AGOVE THE LINE FOR DRICTION LIZE CHEY

NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -



Reesa. Fisher @ apachecorp. com

		1220 South St. Francis Drive, Santa Fe, NM 87505	
		administrative application checklist	
TH	IIS CHECKLIST IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHECH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	
Applio	otton Acronyce	31	
		ndard Location] [NBP-Non-Standard Proretion Unit] [SD-Simultaneous Bediention]	
	-	nhoto Commingling] [CTB-Lease Commingling] [PLC-Feelflease Commingling] of Commingling] [OLS - Off-Lease Storage] [OLE-Off-Lease Measurement)	
	-	[WFX-WeiterGood Expension] [FSUX-Pressure Eleintenance Expension]	
	READ Anni	[BWD-Sell Water Disposal] [IPI-Injection Pressure Increase] Hilled Enhanced Oil Recovery Certification] [PPR-Positive Production Recovery)	
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[1]			
	[A]	Location - Spacing Unit - Simultaneous Dedication NSL NSP SD Apach & Corporation	
		Location - Spacing Unit - Simultaneous Dedication NSL NSP SD One Only for [B] or [C]	
		c One Only for [B] or [C]	
	[B]	Cone Only for [B] or [C] Commingling - Storage - Measurement mm DHC Z CTB PLC PC OLS OLM Well Injection - Disnosal - Pressure Increase - Enhanced Oil Recovery	
		- 6 kg 1. day 1 day 1	
	· [C]	- inflational minimum and an analysis	
		WFX PMX SWD PPI BOR PPR 30-02-5-07230	
	[D]	Other: Specify	
for	NOTEGAT	30-025-0723)	
[2]	[A]	TON REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners Lu. ward# >	
	10-03	a, wardy	
	(B)	Offset Operators, Leaseholders or Surface Owner Application is One Which Requires Published Legal Notice 3 0-02 5-0723	_
	[C]	Application is One Which Requires Published Legal Notice	
		- 1	
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bumon of Land Management - Commissioner of Public Land, State Land Office Poul	
•	[E]	Por all of the above, Proof of Notification or Publication is Attached, and/or. 13 20220; 5.44	
	[15]	Tot all of the hours, Floor of Politication of Particular in Patients, and of, 7410	4
	[F]	Waivers are Attached We Normal of the above, Proof of Notification or Publication is Attached, and/or, Tylu Browers in Attached 76.000	Ang
[3]	STIRMIT AC	CIRATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE	
(-1		ATION INDICATED ABOVE. S 1336 11 31	2
* **	CONTRACT A	5 133¢ 11 J	_
[4]	CERTIFICA val is accurate:	ATION: I hereby certify that the information submitted with this application for administrative SAN AND and complete to the best of my knowledge. I also understand that no action will be taken on this	de
applic	ation until the r	equired information and notifications are submitted to the Division.	
	Not	o: Biolomoni must be dompioted by an individual with managerial and/or supervicery capacity.	
Q.	The Fred	HER KORSA Fisher ST STATT REG AUGUST 2/2/15	
Print	or Type Name	HER PRICES HOWER SIGNATURE THE Date	



Mr. Phillip Goetz
Engineering & Geological Services Bureau
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505
(Sent Electronically)

ARCADIS U.S., Inc. 630 Plaza Drive Suite 100 Highlands Ranch Colorado 80129 Tel 720.344.3500 Fax 720.344.3535 www.arcadis-us.com

Subject:

Application for Surface Commingling (Diverse Ownership) LW Ward 001, 2 UT, 003 and 004

Dear Mr. Goetz,

ARCADIS is providing on behalf of Apache Corporation, an application for surface commingling for LW Ward wells 001, 2UT, 003 and 004, which occur in the southeast quarter of Section 11, T13S, R38E. Wells 001, 2UT and 004 are currently commingled. Well 003 is being re-completed, and the permitting is being brought up to date. Detailed descriptive Information is included to clarify the request and all items that are required by the application are included in the application packet.

Please contact Twila Carlson, ARCADIS at the listed phone number on the right for any questions or items that need further clarification. Apache requests a verbal confirmation for permission to commingle as soon as is possible, and therefore I will be calling to discuss this application in follow up to its submission.

ENVIRONMENT

Date:

February 9, 2015

Contact:

Twila Carlson

Phone:

720.344.3743

Email

twila.carlson@arcadis-us.com

Our ref:

. MT001153.0001

Sincerely,

Twila Carlson

Environmental Staff Scientist

ARCADIS

Cc: OCD District I Office, Hobbs, NM Reesa Fisher, Apache Corp Jennifer Van Curen, ARCADIS

Commingling Well Information for Surface Commingling Permit

This surface commingling application is to allow product from the four LW Ward wells to be commingled at the LW Ward Battery. All wells are from the Bronco field. Well 001 is from the Wolfcamp zone or formation, while Wells 2 UT and 004 are from the Devonian zone and Well 003 is from the San Andres zone. These wells are part of a fee lease where Apache has a contractual interest in the LW Ward Joint Operating Agreement. There is no depth segregation on the asignment or operating agreement. The fee lease does not have a pugh clause, so the LW Ward working interest owners each have all depths in this quarter section.

The 1952 lease encompases the south half of Section 11, T13S, R38E; however, only the southeast quarter contributed to the working interest unit by other parties. The working interest unit owners were notified of the plans to recomplete and their signed consent ballots are attached.

The production details follow:

Production enters header and is separated in a 10 x 30 Production Separator. Oil is tank gauged for measurement and truck hauled. Gas is metered off of Production Separator and sent to Schenk lease (HD Schenck No. 001), which is included within a Joint Operating Agreement (the Boundary Map is included for this unit). Water is transferred from Production Separator via 4" poly lines to Bronco SWD wells in same field but located in Texas. Water is metered prior to disposal. Each well in Ward lease is tested on a monthly basis through an 8 x 20 tester where oil, water, and gas are metered for allocation back to each well.

The produced water line that extends to the Bronco SWD crosses Texas State Highway 769 (State Line Road). This water line has been in place for approximately 10 years. The permit for this right-of-way is in process with the Texas Department of Transporation (TDOT).

Attached please find the signed Administrative Application Checklist, the signed Form C-107-B, Table 1 as a supplement to Form 107-B, the LW Ward lease layout; the LW Ward Battery layout drawing with the legal description; the plats for each of the four wells, a drawing of the Joint Operating Agreement Boundary Map, and the signed ballot letters from the working interest owners.

District I
1625 N. French Drive, Hebbs, NM 88240
District II
811 S. First St., Artests, NM 88210
District III
1600 Rio Berner Road, Artee, NM 87410
District IV
1220 S. St French Dr., Sarto 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.

APPLICATION FOR SURFACE COMMINGLING (DIVERSE OWNERSHIP) OPERATOR NAME: APPLICATION OF THE PROPERTY OF THE PRO								
OPERATOR NAME: APACHE (OKPONE) ATTACK								
OPERATOR ADDRESS: 303 VETERALS ATRIPACK IN STESSED, MIDIANO TX 199705 APPLICATION TYPE:								
Pool Commingling Lease Comminglin	g Pool and Lease Cor	amingling Diff-Lease	Storage and Manni	rement (Oaly if not Surface	Commingled)			
	State Peda							
Is this an Amendment to existing Order Have the Bureau of Land Management Miyes No	Is this an Amendment to existing Order? Yes A'No If "Yes", please include the appropriate Order No							
(A) POOL COMMINGLING (See Table 1) Please attach sheets with the following information								
(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production		Calculated Value of Committeed Production	Volumes			
Wolfcamo 07600	36 api	34.8 api /		\$167.7/days) \$3.85.60/days) buck m: \$2.58/mmBTU \$52.80/BBL				
Siluro Devonian 07410	L 24.55xL	•		+3385,60/dal				
San Andres 98107	32 api (proje	tell 1209.5 BTU		posed mi				
	<u>'</u>			#2.58/MMBTU				
(2) As any partition of the of the allows	Und Cive Wille	<u>L </u>	<u> </u>	1452.80/8BL	L			
(2) Are any wells producing at top allows (3) Has all interest owners been notified by		posed commingling?	Ďγes □No.	i	·			
(4) Measurement have Killetoning I	T Other (Specific)		, +					
(5) Will commingling decices the value	of production? Life	Milyo it yes, deten	be why comming	mg should be approved				
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(1) Pool Name and Code.	Pieste attien men	s with the following l	HOTHINGS					
(2) is all production from same source of	supply? □Yes ØN	lo						
(3) Has all interest owners been notified by		posed counsingling?	□Yca □1	No	1			
(4) Measurement type: []Metering [1 Onser (abecuty)				İ			
•		LEASE COMMIN is with the following i						
(1) Complete Sections A and E.	FROM BUILDING SCIE	s with the pullowing i	mer instead					
Ι	D) OFF-LEASE ST	TORAGE and MEA ets with the following						
(1) Is all production from some course of			trach tratition.					
(2) include proof of notice to all interest				W4				
	INTERNACED A RESIDENCE	ADAG ATTICAL CO.	11141					
(E) A	DDITIONAL INFO	DRMATION (for a) to with the following ((ypen)	1			
(1) A schematic diagram of facility, fash	ding legal location.							
(2) A plat with lease boundaries showing	•	tions. Include lease must	ezs if Federal or S	itate leads are involved.				
(3) Lease Names, Lease and Well Numb	ers, edd af'i Neildeis.							
I hereby certify that the information above	s true and complete to th	e best of my knowledge a	nd belief.					
SIGNATURE: KOGAO JISH	<u> </u>	me: St Staff	Ren Ara	LAST DATE 2/	2/15			
TYPE OR PRINT NAME REES	A FISHER		π	LEPHONE NO. 432	818-1062			
E-MAIL ADDRESS: Reesa . F	sher@apac	hecorp.com		•				

Table 1. Commingling Well Information for Surface Commingling Permit

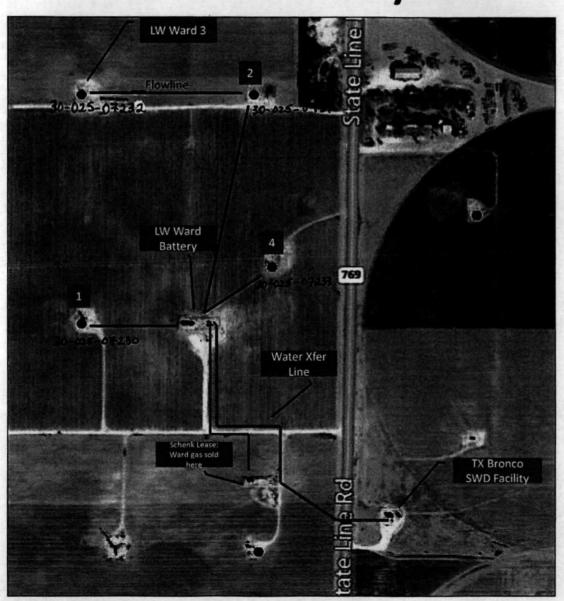
Wellió	API Numbers	Property Number	Acreage	Pool Name	Pool Number	Gravities/BTU of Non-	Production Volumes of Oil (bbl per Day)		re of ction (per
LW Ward 001	30-025-07230	26474	40	Wolfcamp	07600	36 api / 5 mcfd	5	34.8 api / 1209.5 BTU \$	167.70
LW Ward 2 UT	30-025-07231	26474	43.69	Siluro Devonian	07410	36.5 api / 30 mcfd	27	REPORT S	5,385.60
				San Andres; WC-025	5				
LW Ward 003	30-025-07232	26474	40	G-02 5133811J	98107	32 api (projected)	(3)	\$ \$	5,553.30
LW Ward 004	30-025-07233	26474	40	Siluro Devonlan	07410	36.5'api / 30 mcfd	70		

Notes: 1Based on 2/9/15 price of \$2.58/MMBTU for Natural Gas, and \$52.80 bbl for crude oil. Gas value is listed about the oil value in the table.

³Gas is expected to be very minimal

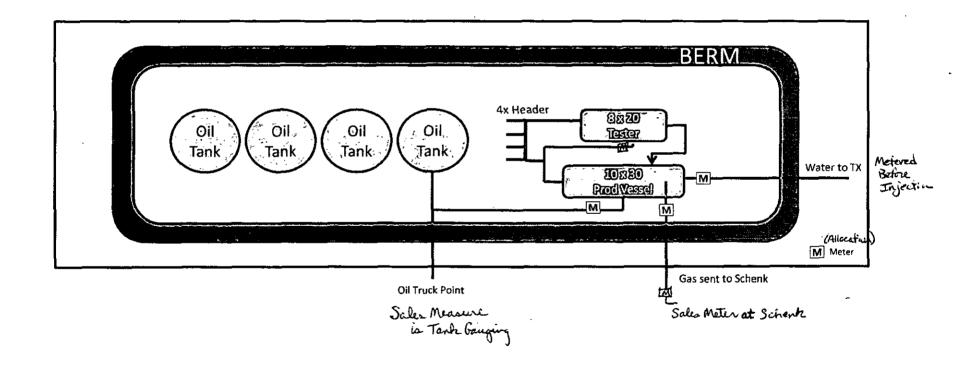
³Not yet known

LW Ward Layout



LW Ward Battery

Legal Location: 13S-38E, Sec 11



- WELL CATION AND ACREAGE DEDICATION AT

		All distances must	be from the oute	r boundaries of	the Section		
Cs.evitor			Lease				Well 140.
Amerada	a Hess Corpor	ation	L.	W. Ward		·	4
Unit Letter	Section	Township	Hange		County		
P	11	138	•	38E		Lea	
Actual Fastage Loc	ation of Well:	_					
990 -	feet from the	South Inc.		fee	from the	East	line
Ground Level Elev.	Finducing Fo		Fool '			Ì	Dedicated Acreage:
3809 DI	f Silurio	Devonian	Bronco	Siluro Dev	oniau		40* Acres
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	ų.	•	,				,
2. If more th	an one lease is	dedicated to the	well, outline	each and ide	ntify the	ownership th	ercof (both as to working
	nd royalty).	•					, , , , , , , , , , , , , , , , , , ,
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3. If more tha	in one lease of a	lifferent ownership	is dedicated	to the well,	have the i	nterests of	all owners been consoli-
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Yes	☐ No If a	nswer is "yes," typ	ne of consolid	lation			
				•			
If.answer	is "no," list the	owners and tract,d	escriptions w	hich have ac	tually be	en consolida	ted. (Use reverse side of
this form i	necessary.)	 					
No allowa!	ile will be assign	ed to the well until	all interests	have been c	onsolidat	ed (by comm	nunitization, unitization,
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# C-0	l and Nall in 1	the 42 61 page				ļ	CERTIFICATION
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<u> त्रिक्ता</u>स्य (1625 N. French Dr., Hobbs, Not 88240 Ngdet N 1301 W. Grand Avenue, Arteslo, NM 88210

Djulet III 1000 Rio Brezos Rd., Artec, NSI 87410

Divide IV

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 October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fce Lease - 3 Copies

1220 N. St. Francis	Or., Sunia F	e, NAI 87585						LJ AME	ended report
		ν	VELL LO	CATIO	N AND ACR	EAGE DEDIC	CATION PLA	.T	
*API Number 30-025-07230 07410				1001 Code	,	co; S ilure Devon iz	Pool Na		
Property (25474	L W Ward	1	* Property Name					Weij Number	
'ogrin i 873	Apache C	orporation	*Operator Name oration: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705					Elevation	
					10 Surface	Location			
UL or lot no. O	Secilon 11	Township 135	Range 38E	Let Idn		North/South tine South		East/Vest line East	Connty Lea
			п В	ottom Ho	le Location I	f Different From	m Surface		
UL or let no.	Section	Tanınlıp	Range					Enst/West Une	County
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

				
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)		1	wie or under my supervision, and that the same is true
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NEW MEXICO DIL CONSERVATION COMMISSION

PORM C-128

WELL LOCATION AND ACREAGE DEDICATION PLAT

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE											
SECTION A											
Operator				Lease				Well No.			
Amerada Petro Unit Lener Section				L	Lo Wo Ward 2 I					2 07	·
	1	Township 22	່. ຮ	TAGE		316	Cou	-	Lea		
Actual Footage Location						1			Per .		
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	coducing Fo			Pool			•			edicated Acres	ge:
38101	Missi	ssippian		Un	desi	mated M	188	issi	.ppian	43.69	Acres
Is the Operator the only owner in the dedicated acreage outlined on the plat below? YESNOX, ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.) If the answer to question one is "no," have the interests of all the owners been consolidated by communicization agreement or otherwise? YES X NO If answer is "yes," Type of Consolidation											
· ·		<u> </u>	 		-				· · · · · · · · · · · · · · · · · · ·		·
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							New Mext.co	Текв	in SECTION plete to the belief. Name We Position Dis Company Ame	tify that the in A above is trubest of my known the Dunlar strict Suptarada Petropust 12, 19	e and com- wledge and . Corp.
			# 1441. # 1/2 / 1	•		43.69 Acres			shown on the plotted from surveys mad supervision, and correct and belief. Date Survey	Professional Es	ON B was actual er my ame is true ny knowledge
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HOME OCO

DEC 0 9 2014 District Form C-102 State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 Revised October 12, 2005 Energy, Minerals & Natural Resources Department District II Maint to Appropriate District Office OIL CONSERVATION DIVISION 1301 W. Grand Avenue, Artesia, NM 88210 State Lease - 4 Copies District III 1220 South St. Francis Dr. Fee Lease - 3 Copies 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 ☐ AMENDED REPORT OCATION AND API Number 30-025-07232 Property Code 003 26474 L W Ward OGRID No. Operator Name Elevation Apache Corporation: 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705 873 3810' GL 10 Surface Location UL or lot no. Section Township Renge Lot Idn Feet from the North/South line Feet from the East/West line County 38E 138 1983 South 1515 East Lea 11 Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot idn Feet from the North/South line Feet from the East/West line County Range Dedicated Acres Joint or Infill Consolidation Code Order No.

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

16			17 OPERATOR CERTIFICATION I hereby extrify that the high-marken combined herein is one and complete to the best of my knowledge and belief and that this organization either owns a working interest or unleased nineral naverst in the land including the proposed bottom hole incustion or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working nuerest, or to a robustary poolling agreement or a computatory pooling order heringfore encred by the first poil 12/08/2014 Signature Date Reesa Fisher Prioted Name
	*	_I5 <u>I</u> 5'	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor:
·	.596/		Certificate Number

OPERATOR AMERADA PETROLEUM CORP. LEASE L.W. WARD WELL NO. 4._ 914.10 436.88₀, 400 SEC. 11 , TWP 13S, RGE. 38E , N.M.P.M.

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD BY ME IN AN ACTUAL BONA FIDE SURVEY AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOHN W WEST, RE. B L.S. NO. 676

OCT. 23, 1954

LW Ward #1 Well Production Data $ \iota $

Date	Oil Rate bbl/d	Gas Rate Mcf/d	Water Rate bbl/d	Cum Oil	Cum Gas	Cum Wtr			
7/1/2014	5	9	342	155	279	10602			
8/1/2014	4	8	317	124	248	9827			
9/1/2014	4	7	305	120	210	9150			
10/1/2014	5	6 .	392	155	186	12152			
11/1/2014	8	4	467	240	120	14010			
12/1/2014	3	2	201	93	62	6231			
1/1/2015	4	0 .	198	124	0	6138			

Cum 23 4, 43480 47460mer

L. W. WArd#I-> WCONLy

LW Ward #2 Well Production Data 300000 1000

Date	Oil Rate bbl/d	Gas Rate Mcf/d	Water Rate bbl/d	2	Cum Gas	Cum Wtr
7/1/2014	40	27	3729	1240	837	115599
8/1/2014	42	27	3956	1302	837	122636
9/1/2014	40	26	3790	1200	780	113700
10/1/2014	39 3 [25	4929	1209	775	152799
11/1/2014	-66 G3	40	6244	1980	1200	187320
12/1/2014	22.70	20	3399	992	620	105369
1/1/2015	30	0	4546	930	0	140926

C4m 277 051 BU 84141 mcf

IW Ward #4 Well Production Data Devoniah

Date	Oil Rate bbl/d	Gas Rate Mcf/d	Water Rate bbl/d	Cum Oil	Cum Gas	Cum Wtr
7/1/2014	62	33	4571	1922	1023	141701
8/1/2014	62	32	4394	1922	992	136214
9/1/2014	66 📜	33	4694	1980	990	140820
10/1/2014	65 66	31	6273	2015	961	194463
11/1/2014	2812-	12	1920 82-3-0	840	360	57600
12/1/2014	63-75	26	4401 52 47	1953	806	136431
1/1/2015	-72-7.5	0 ·	3701	2232	0	114731

Cum 670,00030 160,379 mix

Carlson, Twila

From: Nelson, John < John.Nelson@apachecorp.com>

Sent: Thursday, February 26, 2015 11:37 AM

To: Carlson, Twila; Addison, Casey

Cc: Fisher, Reesa

Subject: Ward producing well formation signed letter

Attachments: Ward Producing Well Formations.pdf

Twila, attached is the signed letter stating what formations the Ward wells are producing from.

Also, the expected Ward 3 volumes are 10 oil, 100 wtr, and 10 gas.

Let me know if you need anything else.

Thanks, John

John Nelson

Apache Corporation – Permian Production Engineer – Denver City

Ofc: 432.818.1154 Cell: 512.413.3360 To: Twila Carlson

From: John Nelson

Re: Ward producing formations

Date: 2/26/15

To Whom It May Concern,

The Ward 1 is producing from the Wolfcamp.

The Ward 2 is producing from the Siluro-Devonian formation.

The Ward 4 is producing from the Siluro-Devonian formation.

Regards,

John Nelson