

RECEIVED: 10/06/2017	REVIEWER: MAM	TYPE: DHC	APP NO: DMAM1727950854
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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



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: OXY USA WTP LP **OGRID Number:** 192463
Well Name: OXY Bulldog State #1 **API:** 30-015-29234
Pool: Burton Flat Wolfcamp, North - 73520 Saladar Strawn - 84412 **Pool Code:** 73520 - 84412

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
 A. Location - Spacing Unit - Simultaneous Dedication
 NSL NSP (PROJECT AREA) NSP (PRORATION UNIT) SD
 B. Check one only for [I] or [II]
 [I] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
 [II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

DHC 4822

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
 A. Offset operators or lease holders
 B. Royalty, overriding royalty owners, revenue owners
 C. Application requires published notice
 D. Notification and/or concurrent approval by SLO
 E. Notification and/or concurrent approval by BLM
 F. Surface owner
 G. For all of the above, proof of notification or publication is attached, and/or,
 H. No notice required

FOR OCD ONLY	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

~~Note: Statement must be completed by an individual with managerial and/or supervisory capacity.~~

David Stewart

 Print or Type Name

 Signature

10/6/17

 Date
 432-685-5717

 Phone Number
 david_stewart@oxy.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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-107A
Revised August 1, 2011

APPLICATION TYPE
 Single Well
 Establish Pre-Approved Pools
 EXISTING WELLBORE
 Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

OXY USA WTP LP P.O. Box 50250 Midland, TX 79710

Operator Address
OXY Bulldog State 1 H - 16 - 20S - 28E Eddy
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 192463 Property Code 302156 API No. 30-015-29234 Lease Type: Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Burton Flat Wolfcamp, North		Saladar Strawn
Pool Code	73520		84412
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	9080-9217'		10319-10328'
Method of Production (Flowing or Artificial Lift)	Artificial		Artificial
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	2580		2580
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1000		1000
Producing, Shut-In or New Zone	New		New
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: See Production Rates: Type Curve	Date: Rates:	Date: See Production Rates: Type Curve
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 59 % Gas 29 %	Oil % Gas %	Oil 41 % Gas 71 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes No
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes No
Are all produced fluids from all commingled zones compatible with each other? Yes No
Will commingling decrease the value of production? Yes No
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? NMSLO Yes No
NMOCD Reference Case No. applicable to this well: _____

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling. Approved C-101 PB Permit

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE David Stewart TITLE Sr. Regulatory Advisor DATE 10/4/17
TYPE OR PRINT NAME David Stewart TELEPHONE NO. (432) 685-5717
E-MAIL ADDRESS david_stewart@oxy.com

RECEIVED OGD
2017 OCT -6 P 1:14

District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720
District III
1900 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170
District IV
1220 S. S. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

SEP 18 2017 Revised August 1, 2011

Submit one copy to appropriate

RECEIVED

District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-29234	² Pool Code 73520	³ Pool Name Bunton Flat Wolfcamp, North
⁴ Property Code	⁵ Property Name OXY Bulldog State	
⁷ OGRID No. 192463	⁸ Operator Name OXY USA WTP LP	⁶ Well Number 1
⁹ Elevation 3265		

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	16	20S	28E		1980	North	660	east	Eddy

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 320	¹³ Joint or Infill N	¹⁴ Consolidation Code	¹⁵ Order No.
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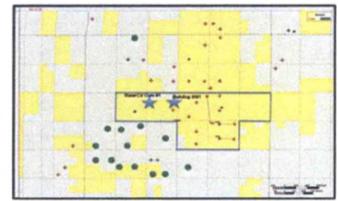
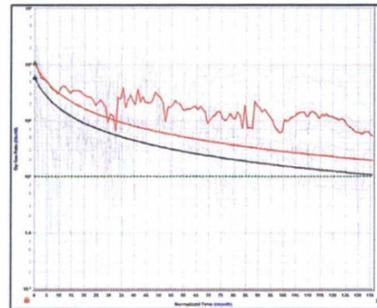
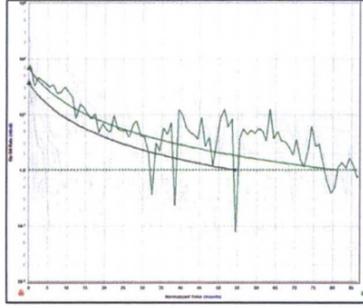
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p>¹⁶</p>	<p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>David Stewart</i> Date: 9/14/17 Printed Name: David Stewart Sr. Res. Ado. E-mail Address: david_stewart@oxy.com</p>
	<p>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.</p>
	<p>Date of Survey Signature and Seal of Professional Surveyor:</p>
	<p>Certificate Number</p>

Production Estimation Strawn – Bulldog State 01 and State CV 01

Allocation

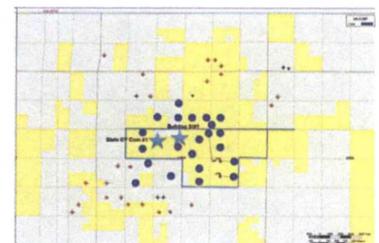
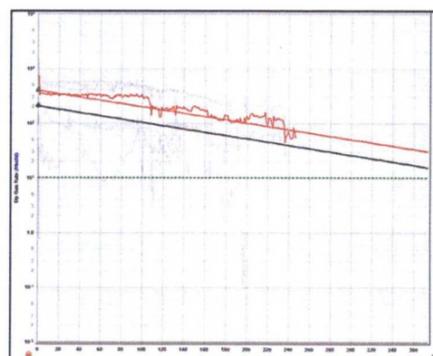
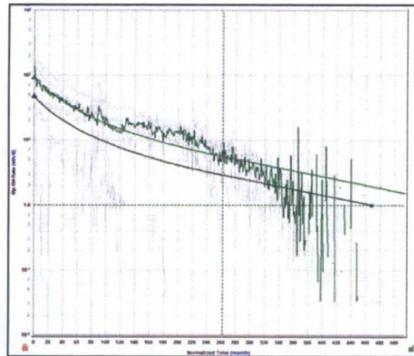
STRAWN Recompletion		
	EUR gas, MMscf	229
71%	Peak rate ₃₀ , mscfd	536
	Di, %/year	75%
	Dmin, %/year	6%
	b-factor	0.8
	qf, mscfd	10
	EUR Oil, MBO	9
41%	Peak rate ₃₀ , bopd	34
	EUR Water, MBW	25
	WOR, bw/bo	2.7
	EUR MBOE	47



Production Estimation Wolfcamp – Bulldog State 01 and State CV 01

Allocation

WFCMP Recompletion		
	EUR gas, MMscf	867
29%	Peak rate ₃₀ , mscfd	214
	Di, %/year	8%
	b-factor	0
	qf, mscfd	10
	EUR Oil, MBO	98
59%	Peak rate ₃₀ , bopd	48
	EUR Water, MBW	140
	WOR, bw/bo	1.4
	EUR MBOE	243



District I
1625 N French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
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811 S First St., Artesia, NM 88211
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District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6175 Fax (505) 334-6179
District IV
1220 S. Francis Dr., Santa Fe, NM 87503
Phone (505) 476-3460 Fax (505) 476-7462

State of New Mexico **NM OIL CONSERVATION** Form C-102
Energy, Minerals & Natural Resources Department **ARTESIA DISTRICT** Revised August 1, 2011
OIL CONSERVATION DIVISION **SEP 18 2017** submit one copy to appropriate District Office
1220 South St. Francis Dr.
Santa Fe, NM 87505
RECEIVED AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-29234	² Pool Code B4412	³ Pool Name Saladan Strawn
⁴ Property Code	⁵ Property Name OKY Bulldog State	⁶ Well Number 1
⁷ OGRID No. 192463	⁸ Operator Name OKY USA WTP LP	⁹ Elevation 3265

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	16	20S	28E		1980	North	660	east	Eddy

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 320	¹³ Joint or Infill N	¹⁴ Consolidation Code	¹⁵ 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 	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>David Stewart</i> Date: 9/14/17</p> <p>Printed Name: David Stewart SR. Reg. Adv.</p> <p>E-mail Address: david_stewart@oky.com</p>
	<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p>
	<p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p>
	<p>Certificate Number</p>

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1220 S St Francis Dr. Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

NM OIL CONSERVATION
ARTESIA DISTRICT
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013
SEP 18 2017
 AMENDED REPORT
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APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address OXY USA WTP LP P.O. Box 50250 Midland, TX 79710		OGRID Number 192463	
Property Code		API Number 30-015-29234	
Property Name OXY Bulldog State		Well No	

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
H	16	20S	20E		1980	north	660	east	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

9. Pool Information

Pool Name Benton Flat Wolfcamp, North - 73520	Pool Code Saladar Strawn - 8442
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Additional Well Information

Work Type PB	Well Type G	Cable/Rotary N/A	Lease Type S	Ground Level Elevation 3265'
Multiple Y - DHC	Proposed Depth 10328'	Formation Wolfcamp-Strawn	Contractor N/A	Spud Date After Permit + Approval
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

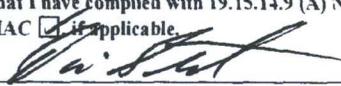
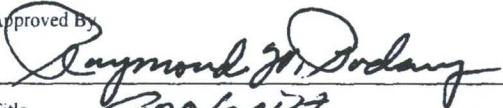
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17 1/2"	13 3/8"	48	416'	420	Surf-Cinc
Int	11"	8 5/8"	24-32# 23#	3046' 2902'	1975 250	" " "
Prod	6 1/4"	4 1/2"	11.6#	11431'	1030	2540' calc

Casing/Cement Program: Additional Comments

See Attached for proposed procedure & WBD DHC to be filed

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	

<p>23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature: </p> <p>Printed name: David Stewart Title: Sr. Regulatory Advisor E-mail Address: david_stewart@oxy.com Date: 9/14/17</p>	<p style="text-align: center;">OIL CONSERVATION DIVISION</p> <p>Approved By:  Title: Geologist Approved Date: 9-18-17 Expiration Date: 9-18-19 Conditions of Approval Attached</p>
Phone: 432-655577	

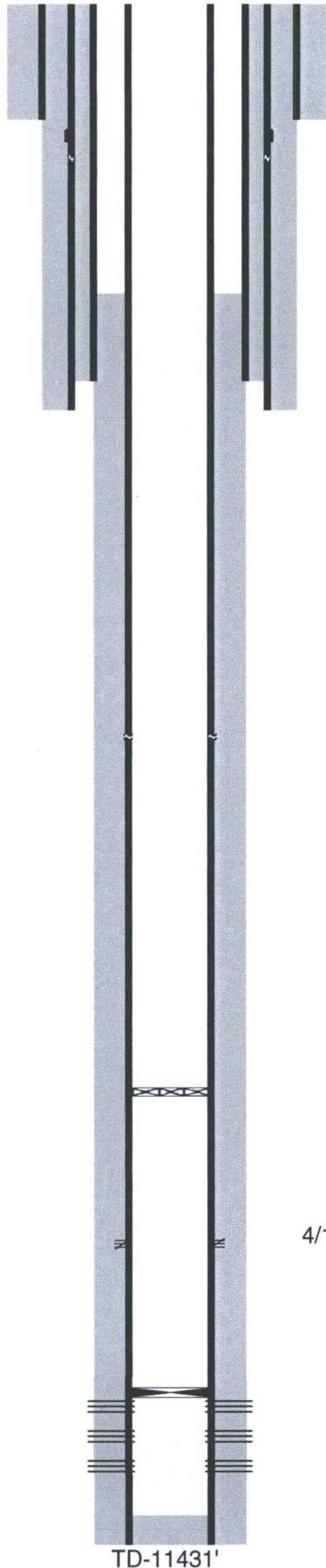
Attachment C-101

OXY USA WTP LP

OXY Bulldog State #1 - 30-015-29234

- Rig Up Well service Unit
- Check for pressures in the well
- Nipple down wellhead and nipple up BOP
- Move in work string , offload and tally
- Pick up 3 13/16" bit and scraper . RIH to 9378 ' . Drill cement retainer @ ~ 8381' and excess of squeeze 9500'
- RIH & tag CIBP @ 10582', M&P 15sx CI H cmt to new PBTB @ ~ 10417'.
- Circulate kill fluid 10 ppg and retest casing 500 psi .Check pressure test value before start operations with PE.
- Pull out of the hole BHA.
- MIRU Wireline Unit and Lubricator
- RIH guns with (SPF,Phase deg TBD), correlate depth and perforate Strawn @ 10,319-10328'. Check well
- Pull up and perforate WC D @ 9204-9217' with (SPF,Phase Deg TBD). Check Well
- Pull and perforate WC C @ 9079-9103' with (SPF, Phase Deg TBD). Check well
- Pull out wireline. RDMO Wire Line Truck
- Pick up Plug and Packer and RIH
- Set plug and packer (isolates strwn perfs)
- MIRU acid truck and acidize Strawn Perfs
- Release plug and packer and move up hole (Isolate WC D perfs)
- Acidize WC D Perf
- Release plug and packer and move up hole (Isolate WC C perfs)
- Acidize WC C Perf
- RDMO Acid Trucks
- Pull out plug and packer laying down work string
- Pick Up and run in to the hole with 2-3/8" tubing , packers and valves for Gas Lift Installation
- Set packer 9050', hang well on.
- Nipple down BOP and Nipple up Wellhead
- Rig Down and mobilize well service uit
- RTP

OXY USA WTP LP - Current
OXY Bulldog State #1
API No. 30-015-29234



17-1/2" hole @ 416'
13-3/8" csg @ 416'
w/ 420sx-TOC-Surf-Circ

Csg part @ 1272' & 1432', sqz w/ 500sx cmt

7" csg @ 2902'
w/ 250sx-TOC-Surf-Circ

11" hole @ 3050'
8-5/8" csg @ 3046'
DVT @ 1210'
w/ 1975sx-TOC-Surf-Circ

4/12-csg lk @ 5810-5842'
sqz w/ 490sx cmt-TOC-2540'-Calc

CR @ 8381'

4/12-Perf @ 9500', sqz w/415sx cmt TOC-5852'-TS

6-1/4" hole @ 11431'
4-1/2" csg @ 11431'
w/ 125sx-TOC-9566'-CBL

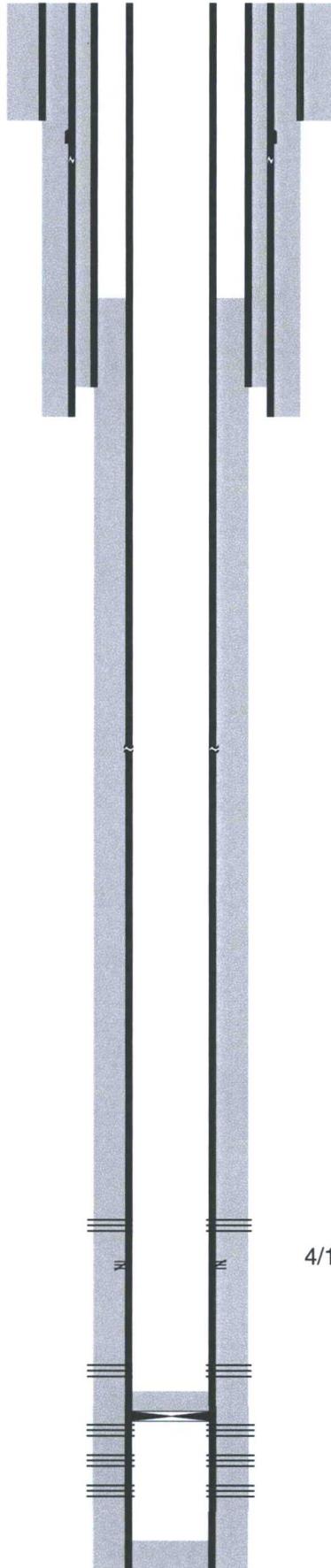
Perfs @ 10630-11154'

4/12-CIBP @ 10582'

PB-11385'

TD-11431'

OXY USA WTP LP - Proposed
OXY Bulldog State #1
API No. 30-015-29234



17-1/2" hole @ 416'
13-3/8" csg @ 416'
w/ 420sx-TOC-Surf-Circ

Csg part @ 1272' & 1432', sqz w/ 500sx cmt

7" csg @ 2902'
w/ 250sx-TOC-Surf-Circ

11" hole @ 3050'
8-5/8" csg @ 3046'
DVT @ 1210'
w/ 1975sx-TOC-Surf-Circ

4/12-csg lk @ 5810-5842'
sqz w/ 490sx cmt-TOC-2540'-Calc

Perfs @ 9080-9217'
4/12-Perf @ 9500', sqz w/415sx cmt TOC-5852'-TS
6-1/4" hole @ 11431'
4-1/2" csg @ 11431'
w/ 125sx-TOC-9566'-CBL

Perfs @ 10319-10328'

Perfs @ 10630-11154'

15sx @ 10582-10417' WOC-Tag
4/12-CIBP @ 10582'

PB-11385'

TD-11431'

Application Downhole Commingling - Service List
OXY USA WTP LP
OXY Bulldog State #1 - 30-015-29234

New Mexico Oil Conservation Division
811 S. First St.
Artesia, NM 88210
7015-0640-0005-1003-4970

New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505
7015-0640-0005-1003-4987

New Mexico State Land Office
P.O. Box 1148
Santa Fe, NM 87504
7015-0640-0005-1003-4994

Copies of this application were mailed to the following individuals, companies and organizations
on or before 10/4/17.



David Stewart
OXY USA WTP LP.

McMillan, Michael, EMNRD

From: David_Stewart@oxy.com
Sent: Tuesday, October 10, 2017 11:52 AM
To: McMillan, Michael, EMNRD
Subject: RE: OXY USA WTP LP - C-107A DHC Application - State CV Com 1 - OXY Bulldog St-1

Mr. McMillan, per your request, please see below for the additional explanation for how the allocation percentages were calculated by the engineer in charge of the project and a statement from the land negotiator about the interest owners being identical. If you need any additional information, please let me know. I appreciate the help.

Thanks,
David Stewart
Sr. Regulatory Advisor
OXY Permian
Wk-432-685-5717
Cell-432-634-5688
david_stewart@oxy.com

From: Guest, Lauren B
Sent: Tuesday, October 10, 2017 12:31 PM
To: Stewart, David R <David_Stewart@oxy.com>
Subject: RE: DHC Application - State CV Com 1 - OXY Bulldog St-1

The working interest and royalty interest in the commingled zones in the State CV Com #1 well are the same. There are no overriding royalty interest owners.

The working interest and royalty interest in the commingled zones in the Oxy Bulldog St #1 well are the same. There are no overriding royalty interest owners.

Lauren Guest
Land Negotiator Staff
Occidental Oil & Gas Corp.
5 Greenway Plaza, Suite 110 | Houston, TX 77046
Office: (713) 985-6987
E-Mail: Lauren_Guest@oxy.com

From: Contreras, Angie Maria
Sent: Tuesday, October 10, 2017 11:16 AM
To: Stewart, David R <David_Stewart@oxy.com>
Cc: Fisher, Michael W <Michael_Fisher@oxy.com>; Boulis, Tasos <Tasos_Boulis@oxy.com>
Subject: RE: DHC Application - State CV Com 1 - OXY Bulldog St-1

Hi Mister David

For the % allocated production, Offset well production was estimated for each zone to be comingled, it was risked based on the comparison of rock properties in the analog wells and was extrapolated to the OXY Bulldog well and the State CV 01 comingled production. This is an estimation as I told you before, because for us these are new zones in the wells and we will get more info once we open them.

I'm CC Tasos in case I'm wrong in something I said.

Thanks

Angie Contreras

Sr. Engineering Advisor – Prod Ops

Permian Resources North New Mexico, OXY

Off: 1 713 497-2012

Mob: 1 832 605-4882

GW5 25.019

Angie_contreras@oxy.com

From: Stewart, David R

Sent: Friday, October 06, 2017 3:11 PM

To: Contreras, Angie Maria <Angie_Contreras@oxy.com>; Guest, Lauren B <Lauren_Guest@oxy.com>

Cc: Fisher, Michael W <Michael_Fisher@oxy.com>; Morris, Justin C <Justin_Morris@oxy.com>; Stillman, Taylor L <Taylor_Stillman@oxy.com>

Subject: RE: DHC Application - State CV Com 1 - OXY Bulldog St-1

I got a call from the NMOCD in Santa Fe and they are wanting a couple of additional items for the DHC applications.

1. Statement from land that all the interests in the proposed commingled zones are identical.
2. An explanation of how the proposed allocation percentages were calculated.

If you have any questions, let me know and I appreciate the help.

Thanks, David S.

Wk - 432-685-5717

Cell - 432-634-5688