

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



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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

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

- [D] Other: Specify _____

- DHC - 4773
 - Oxy USA Inc
 16696
 WCY
 - ESPERANZA 244 #1
 30-015-34205
 Pool
 - CARLSBAD;
 WOLF CAMP, SOUTH COUNTY
 74200
 - CARLSBAD; Stanton
 South, GAS
 74120

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply ...

- [A] Working, Royalty or Overriding Royalty Interest Owners
 [B] Offset Operators, Leaseholders or Surface Owner
 [C] Application is One Which Requires Published Legal Notice
 [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **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]
 Signature

Sp. Reg. Advisor
 Title

8/15/15
 Date

david_stewart@oxy.com
 e-mail Address

District I
1211 Frank Drive Hobbs, NM 88240

District II
113 1/2 Ave S, Artesia, NM 88210

District III
1000 Km Hozos Road, Artesia, NM 88210

District IV
1225 S. B. Francis Dr., Santa Fe, NM 87501

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Corrected
Form C-107A
Revised August 1, 2011

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

APPLICATION FOR DOWNHOLE COMMINGLING

Operator: Oxy USA, Inc. Address: P.O. Box 50250, Midland, TX 79710

Lease No: Espenanzas 24 Well No: F-24-22S-26E Unit Letter-Section-Township-Range: Eddy

OGRID No: 16696 Property Code: 30-015-34205 Lease Type: Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	<u>Carlsbad Wofford South (Gas)</u>		<u>Carlsbad Strawn South (Gas)</u>
Pool Code	<u>74200</u>		<u>74120</u>
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	<u>9250-9552'</u>		<u>10305-10400'</u>
Method of Production (Flowing or Artificial Lift)	<u>Flowing</u>		<u>Flowing</u>
Bottomhole Pressure (Note: Pressure data will not be reported if the bottom perforation is the lower zone or within 10% of the depth of the top perforation in the upper zone)	<u>4400</u>		<u>4780</u>
Oil Gravity or Gas BTLU (Degree API or Gas BTLU)	<u>1200</u>		<u>1200</u>
Producing, Shut-In or New Zone	<u>New</u>		<u>New</u>
Date and Oil/Gas/Water Rates of Last Production (Note: For new zones with no production history, applicants shall be required to attach production estimates and supporting data.)	Date: <u>See Production Rates Type Curve</u>	Date: <u>See Production Rates</u>	Date: <u>See Production Rates Type Curve</u>
Fixed Allocation Percentage (Note: If allocation is by oil upon commencing other than current or past production, supporting data or explanation will be required.)	Oil: <u>88</u> % Gas: <u>12</u> %	Oil: % Gas: %	Oil: <u>12</u> % Gas: <u>88</u> %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?
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?
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.

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.

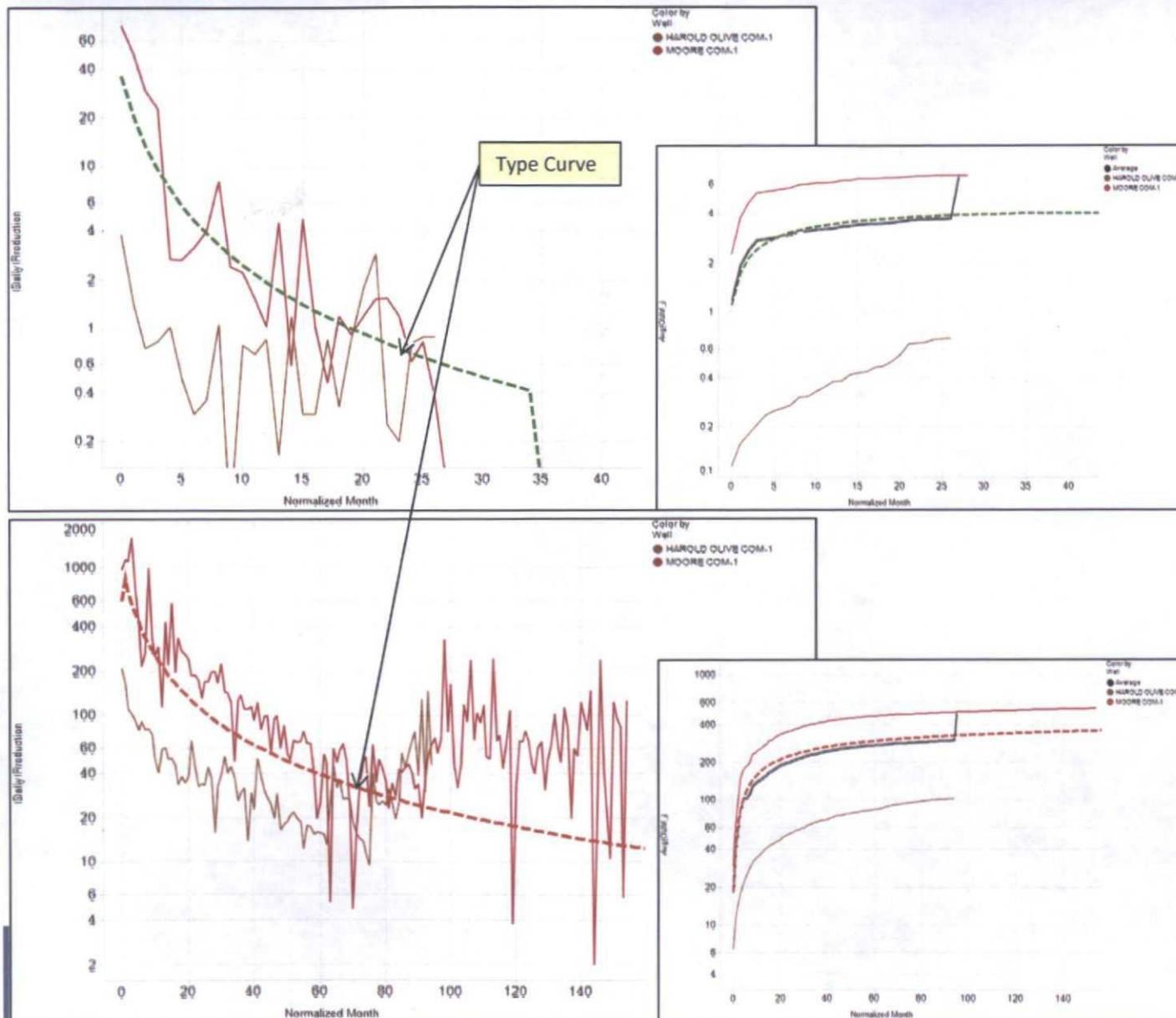
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE: David Stewart TITLE: SR. Res. Advisor DATE: 05/15/2015

TYPE OR PRINT NAME: David Stewart TELEPHONE NO: (432) 605-5117

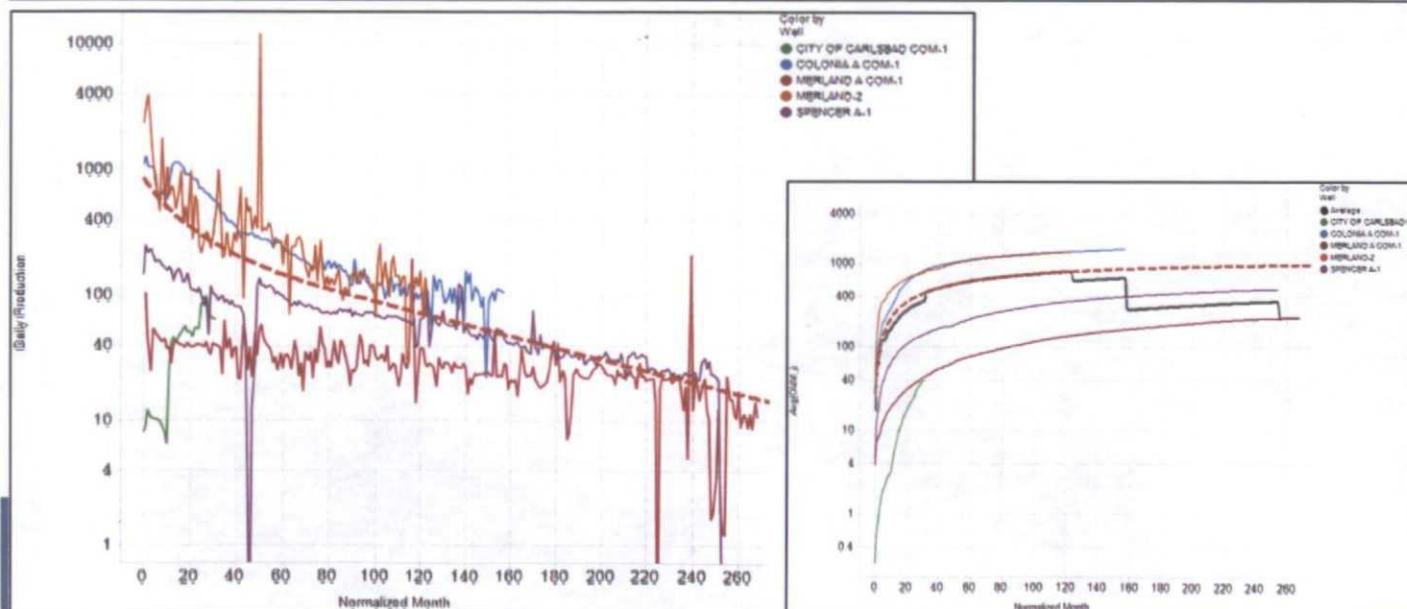
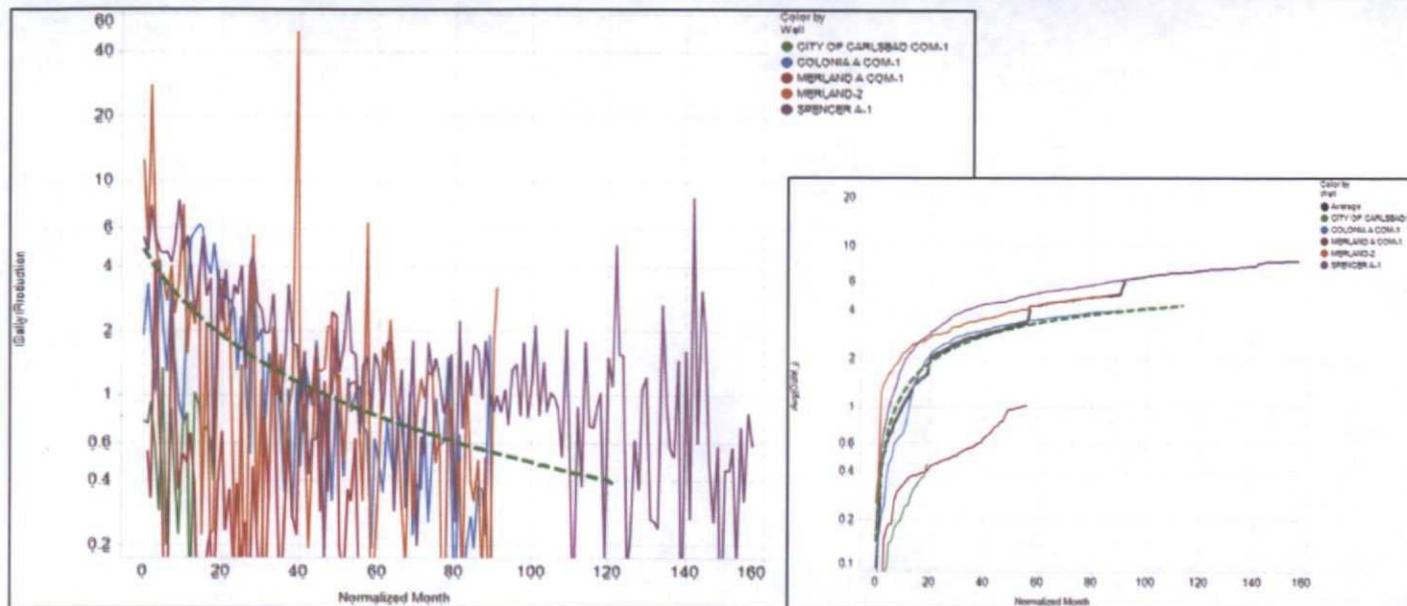
E-MAIL ADDRESS: david_stewart@oxy.com

Esperanza 24 1 Recompletion Production Type Curves - Wolfcamp



Wolfcamp	Recompletion
EUR oil, Mbo	4.0
Peak rate _{30r} , bopd	36
D _r , %/year	96%
D _{minr} , %/year	10%
b-factor	0.6
q _r , bopd	0.4
EUR gas, MMscf	422
Peak rate _{30r} , MCFD	850
D _r , %/year	78%
D _{minr} , %/year	6
b-factor	0.80
q _r , MCFD	1
EUR water, Mbwt	0.43
WOR, bw/bo	.1
EUR MBOE	74

Esperanza 24 1 Recompletion Production Type Curves - Strawn



Strawn	Recompletion
EUR oil, Mbo	4.4
Peak rate _{30r} , bopd	5
D _v , %/year	48%
D _{min} , %/year	6%
b-factor	0.85
q _v , bopd	0.4
EUR gas, MMscf	1,014
Peak rate _{30r} , MCFD	869
D _v , %/year	47%
D _{min} , %/year	12%
b-factor	0.85
q _v , MCFD	1
EUR water, Mbw	3.0
WOR, bw/bo	0.7
EUR MBOE	173

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
 1000 Rio Brazos Road, Aztec, NM 87410
 Phone (505) 334-6178 Fax (505) 334-6170
District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505
 Phone (505) 476-3460 Fax (505) 476-3462

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

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, (PLUGBACK) OR ADD A ZONE

¹ Operator Name and Address OXY USA Inc. P.O. Box 50250 Midland, TX 79710		² OGRID Number 16696	
		³ API Number 30-015-34205	
⁴ Property Code	⁵ Property Name Esperanza 24	⁶ Well No. 1	

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
F	24	22S	26E		1685	North	1935	West	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	24	22S	26E		669	North	1012	West	Eddy

9. Pool Information

Pool Name Cantbad Wolfcamp, South (Gas) - 74200	Pool Code Cantbad Strawn, South (Gas) - 74120
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Additional Well Information

¹¹ Work Type P	¹² Well Type G	¹³ Cable/Rotary R	¹⁴ Lease Type P	¹⁵ Ground Level Elevation 3171'
¹⁶ Multiple W-DHC	¹⁷ Proposed Depth TD 11910' PB 11050'	¹⁸ Formation Wolfcamp-Strawn	¹⁹ Contractor NA	²⁰ Spud Date After Permit Approval
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

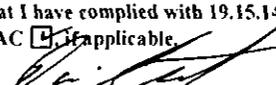
We will be using a closed-loop system in lieu of lined pits

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	429'	450	Surf-Cinc
Int-1	9 7/8"	9 5/8"	34	1950'	815	Surf-Cinc
Int-2	7"	7"	26	8936' 11900'	429	11620'-TS
PROD	6 1/4"	4 1/2" Casing/Cement Program	135		300	8800'-CBL
CIB@ 11385' w/ 30% surf to 11050' See attached for procedure.						

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	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>OIL CONSERVATION DIVISION</p>
Printed name: David Stewart	Approved By:
Title: Sr. Regulatory Advisor	Title:
E-mail Address: david_stewart@oxy.com	Approved Date:
Date: 8/5/15	Expiration Date:
Phone: 432-685-5717	Conditions of Approval Attached

1. MIRU PU. NDWH NUBOP. Scan tubing OOH and lay down.
2. MIRU WL unit. Run gauge ring and then set 4-1/2" CIBP at 11385', M&P 30sx cmt on top of CIBP. RD WL.
3. Also set 4-1/2" CIBP at 10,536'. M&P 30 sx cmt on top of CIBP. RD WL.
4. Pressure test casing to 7000 psi for 30 minutes. Pressure drop should be less than 700 psi.
5. Perforate 3SPF @ 10395-10400', 10305-10310' (30 holes), 120 phasing using 3-1/8" guns loaded with 23 gm charge.
6. Dump bail 15% HCL acid at 10,395'. Break down perforation at 3 bpm with 20 bbls fsw. Make sure perforations will break down before calling out frac crew.
7. NDBOP NU frac stack. RDMO PU.
8. MIRU frac crew. Frac well per below schedule. Maximum pressure 6000 psi, 40-50 bpm.

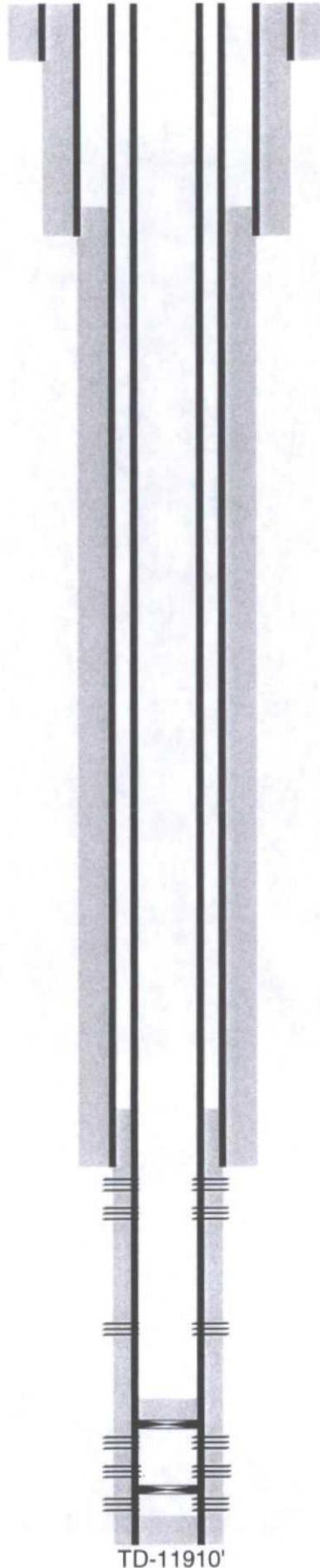
Stage	Description	Fluid Vol. gallons	Cum. Vol. gallons	Fluid Type	Rate bpm	Proppant Conc.	Sand Vol.	Total Sand	Proppant Type
0	15% HCL	2000	2000	acid	10				
1	15# linear	7500	9500	linear fluid	40				
2	15# X-link	15000	24500	x-link fluid	40				
3	15# X-link	3000	27500	x-link fluid	40	0.5	1500	1500	20/40 white
4	15# X-link	5000	32500	x-link fluid	40	1	5000	6500	20/40 white
5	15# X-link	7000	39500	x-link fluid	40	1.5	10500	17000	20/40 white
6	15# X-link	8000	47500	x-link fluid	40	2	16000	33000	20/40 white
7	15# X-link	8000	55500	x-link fluid	40	2.5	20000	53000	20/40 white
8	15# X-link	8000	63500	x-link fluid	40	3	24000	77000	20/40 white
9	15# X-link	8000	71500	x-link fluid	40	3.5	28000	105000	20/40 white
10	Displace	4000	75500	15# linear	40			105000	

9. Do not over-flush frac: cut short by one barrel. Bypass tub at 3#.
10. MIRU WL unit. Set flow through CBP at 9650'. Pressure test to 5000 psi for 5 minutes.
11. Perforate 3SPF@ 9550-9552', 9500-9502', 9450-9452', 9400'-9402', 9350-9352', 9300-9302', 9250-9252' (42 holes), 120 phasing 3-1/8" guns loaded with 23 gm charge
12. Dump bail acid at 9,550'. Break down perforations with 20 bbls fsw.
13. Frac well per below schedule. Maximum pressure 6000 psi, 50-60 bpm.

Stage	Description	Fluid Vol. gallons	Cum. Vol. gallons	Fluid Type	Rate bpm	Proppant Conc.	Sand Vol.	Total Sand	Proppant Type
0	15% HCL	2000	2000	acid	10				
1	15# linear	10000	12000	linear fluid	50				
2	15# X-link	25000	37000	x-link fluid	50				
3	15# X-link	5000	42000	x-link fluid	50	0.5	2500	1500	20/40 white
4	15# X-link	10000	52000	x-link fluid	50	1	10000	11500	20/40 white
5	15# X-link	15000	67000	x-link fluid	50	1.5	22500	34000	20/40 white
6	15# X-link	15000	82000	x-link fluid	50	2	30000	64000	20/40 white
7	15# X-link	15000	97000	x-link fluid	50	2.5	37500	101500	20/40 white
8	15# X-link	15000	112000	x-link fluid	50	3	45000	146500	20/40 white
9	15# X-link	15000	127000	x-link fluid	50	3.5	52500	199000	20/40 white
10	Displace	4000	131000	15# linear	50			199000	

14. SI well. RDMO frac equipment.
15. Lubricate tubing hanger in well with back pressure valve.
16. Remove top part of frac stack, leaving lower master valve closed.
17. RU flow back iron and equipment.
18. Lubricate tubing hanger and back pressure valve out of tubing head.
19. Open well to flowback equipment on 12/64" choke. Flow well up casing.
20. Open choke per PE.
21. Flow well to flowback equipment until cleans up.
22. SI well when fluids cleaned-up. Lubricate tubing hanger with BPV.
23. Install production tree on top of master valve.
24. Contact production department to put well to sales.
25. After well starts liquid loading due to flow up casing, SI well. MIRU PU.
26. ND tree. Set tubing hanger with BPV. Remove master valve.
27. NUBOP. Remove hanger and BPV.
28. RIH with 3-3/4" bit and 3-1/16" drill collars. Drill CBP at 9650' and clean out. TOH.
29. Rerun same 2-3/8" production tubing (bad joints replaced) with NC on bottom, one joint, SN then remainder of tubing.
30. Place SV in SN and pressure test tubing to 6000 psi every 20 stands as RIH. Replace tubing as needed.
31. Land tubing, remove SV. NU production tree. RDMO. Contact lease operator to put well to production.

OXY USA Inc. - Proposed
Esperanza 24 #1
API No. 30-015-34205



17-1/2" hole @ 429'
13-3/8" csg @ 429'
w/ 450sx-TOC-Surf-Circ

12-1/4" hole @ 1950'
9-5/8" csg @ 1950'
w/ 815sx-TOC-Surf-Circ

8-3/4" hole @ 8986'
7" csg @ 8986'
w/ 429sx-TOC-1620'-TS

Perfs @ 9250-9552'

Perfs @ 10305-10400'

6-1/4" hole @ 11910'
4-1/2" csg @ 11900'
w/ 300sx-TOC-8800'-CBL

Perfs @ 11437-11594'
Perfs @ 11736-11822'

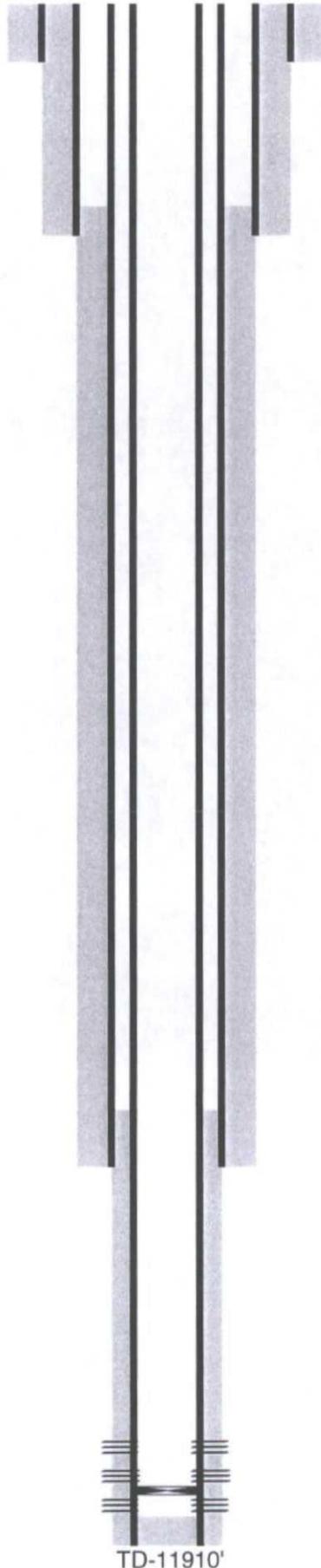
CIBP @ 11385' w/ 30sx to 11050'

CIBP @ 11660'

PB-11858'

TD-11910'

OXY USA Inc. - Current
Esperanza 24 #1
API No. 30-015-34205



17-1/2" hole @ 429'
13-3/8" csg @ 429'
w/ 450sx-TOC-Surf-Circ

12-1/4" hole @ 1950'
9-5/8" csg @ 1950'
w/ 815sx-TOC-Surf-Circ

8-3/4" hole @ 8986'
7" csg @ 8986'
w/ 429sx-TOC-1620'-TS

6-1/4" hole @ 11910'
4-1/2" csg @ 11900'
w/ 300sx-TOC-8800'-CBL

Perfs @ 11437-11594'

Perfs @ 11736-11822'

CIBP @ 11660'

PB-11858'

TD-11910'

District I
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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 August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-34205	² Pool Code 74200	³ Pool Name Carrlsbad Wolfcamp, South (Gas)
⁴ Property Code	⁵ Property Name Esperanza 24	⁶ Well Number 1
⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC.	⁹ Elevation 3171

¹⁰ Surface Location

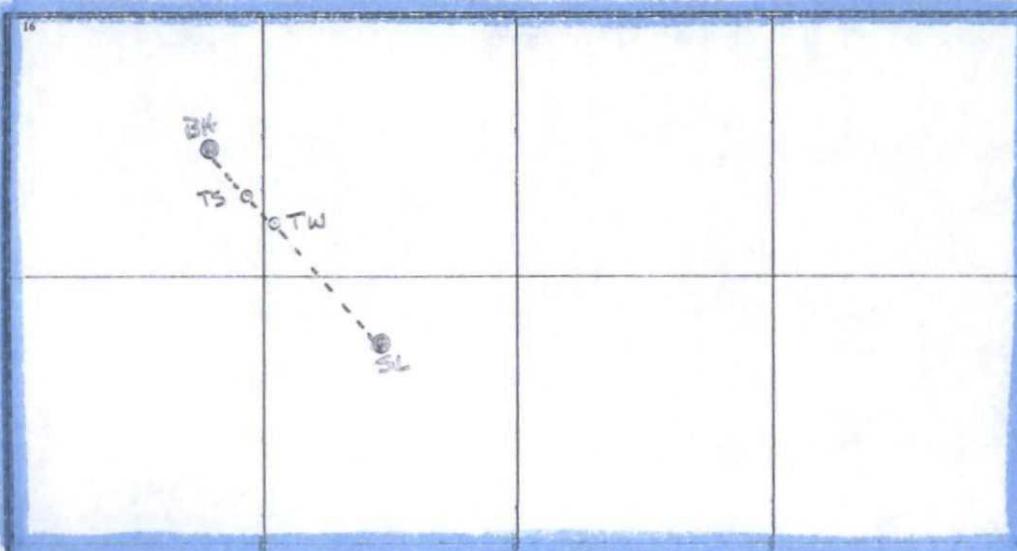
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	24	22S	26E		1685	North	1935	West	Eddy

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
D	24	22S	26E		669	North	1012	West	Eddy

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.



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.

David Stewart 8/5/15
Signature Date

David Stewart SRP, Adv.
Printed Name

david_stewart@oxy.com
E-mail Address

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:

Certificate Number

District I
1005 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
1000 Rio Brazos Road, Artec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
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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 August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-34205	² Pool Code 74120	³ Pool Name Caulsbad Strawn, South (Gas)
⁴ Property Code	⁵ Property Name Esperanza 24	⁶ Well Number 1
⁷ OGRID No. 16696	⁸ Operator Name OKY USA INC.	⁹ Elevation 3171

¹⁰ Surface Location

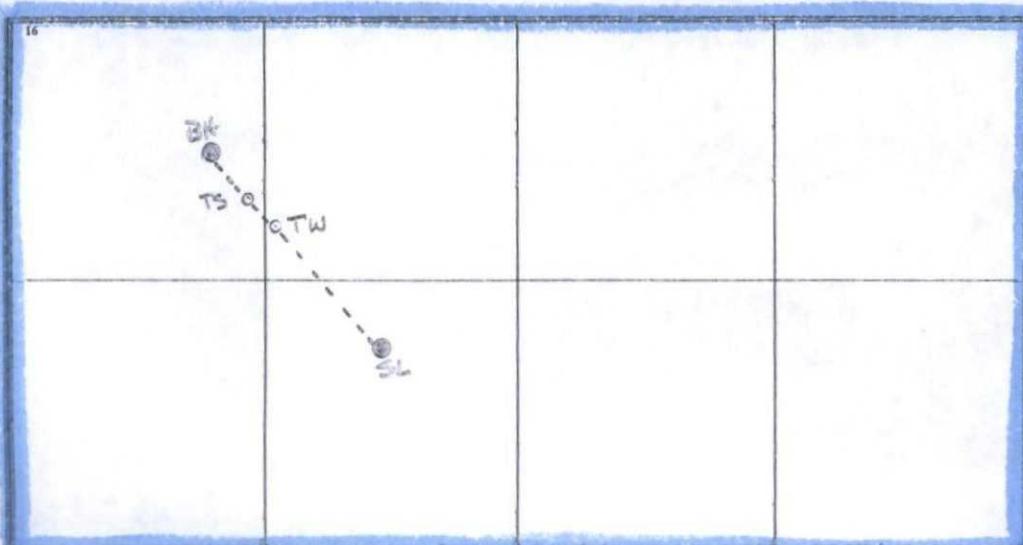
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	24	22S	26E		1685	North	1935	West	Eddy

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
D	24	22S	26E		669	North	1012	West	Eddy

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.



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.

David Stewart 8/5/15
Signature Date

David Stewart S.R.P.S. Adv.
Printed Name

david_stewart@oky.com
E-mail Address

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:

Certificate Number

McMillan, Michael, EMNRD

From: David_Stewart@oxy.com
Sent: Thursday, August 13, 2015 9:15 AM
To: McMillan, Michael, EMNRD
Subject: RE: Esperanza 24 Well No. 1 DHC application

Mike, please see below for the list of wells. If you need any additional information, please let know. I appreciate the help.

Strawn

1. City of Carlsbad Com #1 – 30-015-20325 – O-25-22S-26E
2. Colonia A Com #1 – 30-015-21593 – K-18-22S-27E
3. Merland A Com #1 – 30-015-20459 – O-19-22S-27E
4. Merland #2 – 30-015-33181 – C-30-22S-27E
5. Spencer A #1 – 30-015-20401 – O-30-22S-27E

Wolfcamp

1. Harold Olive Com #1 – 30-015-20981 – O-14-22S-26E
2. Moore Com #1 – 30-015-20842 – I-23-22S-26E

Thanks, David S.
Wk - 432-685-5717
Cell - 432-634-5688
Fax - 432-685-5742

From: McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]
Sent: Wednesday, August 12, 2015 4:21 PM
To: Stewart, David <David_Stewart@oxy.com>
Subject: RE: Esperanza 24 Well No. 1 DHC application

Can you send a list of the wells you used for the allocation methods
Thanks
Mike

From: David_Stewart@oxy.com [mailto:David_Stewart@oxy.com]
Sent: Wednesday, August 12, 2015 3:14 PM
To: McMillan, Michael, EMNRD
Subject: FW: Esperanza 24 Well No. 1 DHC application

Mike, I apologize for the confusion, please see below for the API No. for the wells in question. If you need any additional information, let me know. I appreciate the help.

Harold Olive Com 1: Sec. 14-T22S-R26E (API: 30015209810000)
Moore Com 1: Sec. Sec. 23-T22S-R26E (API: 30015208420000)

Thanks, David S.
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