District 1 1625 N_f 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

NM OIL CONSERVATION ARTESIA DISTRICT

State of New Mexico

AUG Energy Minerals and Natural Resources

RECEIVE Bil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-101 Revised July 18, 2013

☐AMENDED REPORT

APPLI	CATIC	N FOR	PERMIT T	O DRILL, I	RE-ENTE	R, DEEP	EN,(PI	UGBAC	K)OR A	DD A ZONE		
			Operator Name	and Address		OGRID Number						
		• • • • • • • • • • • • • • • • • • • •		~~~		l 669 4						
+ Drop	orty Codo	W	idland .T	750 7-79711	Property Name			36	-015-3°	-{205		
30	erty Code 638	4		Espen	-41179	24				Well Ivo.		
		.			face Locati	on						
UL Lot	Section aҶ	Township 225	Range 26E	Lot Idn	Feet from	N/S Line	<u>~ \ 1</u>	Feet From	E/W Line Wes-(- Eddy		
		1	r	* Proposed	l Bottom Ho	·, ···				\		
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line		Feet From	E/W Line	County		
D	0 0 100				669 	north		1012 W		Edy		
				^{9,} Poc	l Informati	on						
Coulsb	يك المال	framp	, South ((645) - 742	ame OO Cav	·lsbads	trawe	, South	(Gas)-	-74120		
11		·	0		l Well Infor	mation			15			
<u> </u>	rk Type		12. Well Type		13. Cable/Rotary	P" 3171'						
M - 95	ultiple	TD	Proposed Depth	2/10/1	18. Formation	Strewal WA After Permit Mar						
	Depth to Ground water Distance from nearest fresh water						r well Distance to nearest surface water					
[_X3/a will b		alood loop	custom in lieu o	flinad nita								
We will be using a closed-loop system in lieu of lined pits 21. Proposed Casing and Cement Program												
Туре					ght/ft	Setting Depth Sacks of C		Cement	Estimated TOC			
Surt		42	133(8"	પષ્ઠ		429' 450		D) Sunt-Cinc			
Int-1	19	76°	95/5"	36		l950°		ઇા	5	Sent-Cinc		
Int-2		ı"	٦"	26		8950 8950	o'	40		1620'-75		
00 4 9		14"		g/Cement Pro				30		8800,-CBC		
CIBIO	11385	<u>s` ພ</u> (305K CM	t to 11	020,		ee c	Huche d	- for i	procedure,		
			22.	Proposed Blov	vout Preven	tion Progra	m					
	Туре		\	Working Pressure		Test Pressure			Manufacturer			
Double	Ran	~		5000		5000						
												
best of my kn	owledge ar	nd belief.		rue and complete t	_	OIL CONSERVATION DIVISION						
I further cer 19.15.14.9 (E				9 (A) NMAC 🖭 a	ind/or App	Approved By:						
Signature:	ij ivistac [пририст	abit.				190	YSU	<i>!</i>			
Printed name	Dus	.2 Ste	want		Titl	Title: Dy A Spense						
	. Regu					proved Date:	8-12-1	5 E	xpiration Date	e: 8-12-17		
E-mail Addre	ss: dau	: f _St	ewant 0	oxy, com	_							

Conditions of Approval Attached

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised August 1, 2011

District II 811 S. First St., Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

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

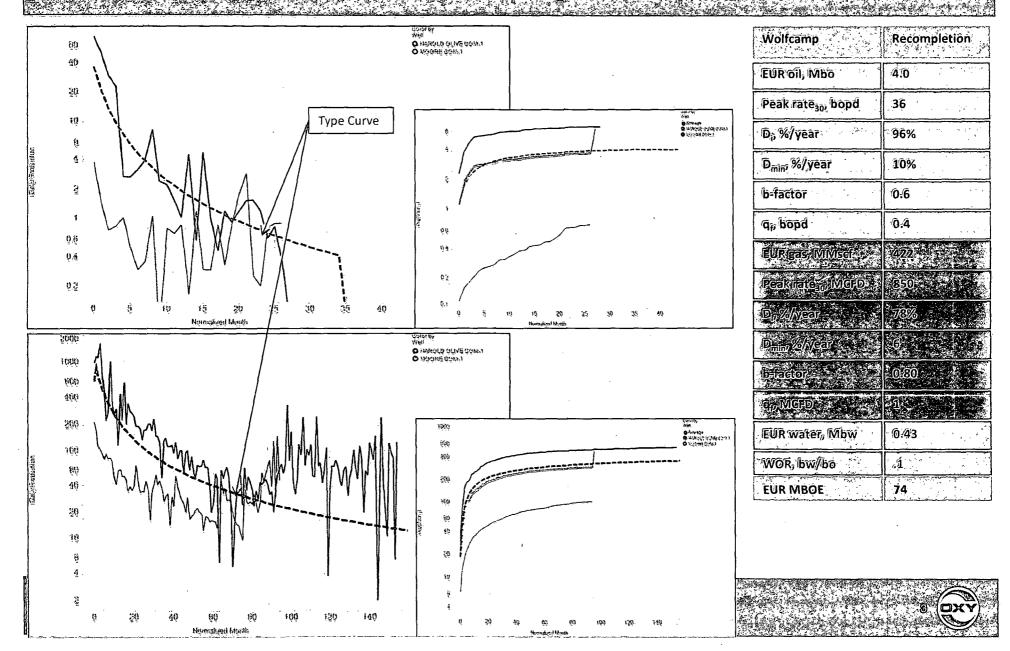
APPLICATION TYPE
Single Well
Establish Pre-Apr
EXISTING

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

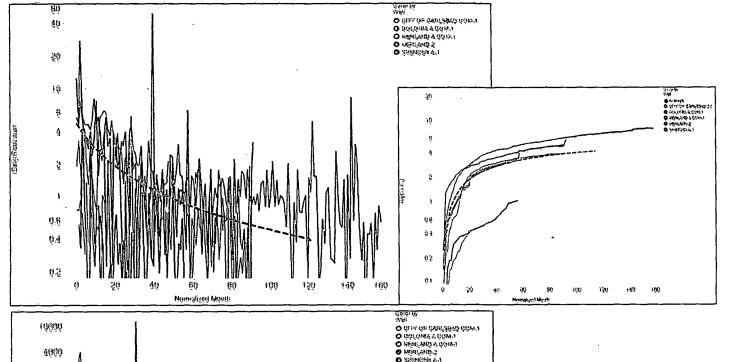
APPLICATION FOR DOWNHOLE COMMINGLING

gie weii	
ablish Pre-A	pproved Poo
KISTING W	ELLBORE
Yes _	No

Oty USA Inc.	0. Box 50250	M: Eland,	TX 79710
Esperanza 24	Well No Unit Letter-	17:55 14:-225-26E	Eddy
Bedde	Tront to:	section to this in principle	County
OGRID No. 16696 Property Co	de API No.30-0	015-34205 Lease Type:	FederalStateFee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Carbbal Wottend South(Gas)		Caulshad Strawn South (Gas)
Pool Code	74200		74120
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	9250-9552		10305-10400
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
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)	५५००		4780
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1200		1200
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,	See Date: Production	Date:	Date: Production
applicant shall be required to attach production estimates and supporting data.)	Rates: Type Curve	Rates:	Rates: Type (usue
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas
than current or past production, supporting data or explanation will be required.)	85 % 50 %	. % %	15 % 50 %
	ADDITION	VAL DATA	
Are all working, royalty and overriding If not, have all working, royalty and over			Yes No Yes No
Are all produced fluids from all commir	agled zones compatible with each o	ther?	Yes No
Will commingling decrease the value of	production?		Yes No
If this well is on, or communitized with, or the United States Bureau of Land Ma			YesNo
NMOCD Reference Case No. applicable	e to this well:		
Attachments: C-102 for each zone to be comming! Production curve for each zone for a For zones with no production histor Data to support allocation method o Notification list of working, royalty Any additional statements, data or d	it least one year. (If not available, a y, estimated production rates and sur formula. and overriding royalty interests for	attach explanation.) upporting data. uncommon interest cases.	
	PRE-APPRO	VED POOLS	
If application is t	o establish Pre-Approved Pools, the	e following additional information wil	I be required:
List of other orders approving downhole List of all operators within the proposed Proof that all operators within the propo Bottomhole pressure data.	Pre-Approved Pools	••	
I hereby certify that the information			
SIGNATURE JUSTA	•	. Reg. Advisor	
TYPE OR PRINT NAME Dau	¿ Stewart	TELEPHONE NO. (4	32,655-5717
E-MAIL ADDRESS 2012	Stewartooxy. co	m	•



Esperanza 24 1 Recompletion Production Type Curves - Strawn



	466ê 18666	٨		● 20년(4년년 후기 ○ 10년(1년년 후인년) ○ 10년(1년년 후인년) ○ 10년(1년년 후인년)
	4966	Jan .		States States
	400- 500- 500-	Land of the state	- Allenda Makanan -	Street
		hand	My My My My My Marie Mar	110
	1ģ	N		10 40
				1 Q 4
1		0 50 40	60 60 100 150 150 160 160 500 550 540 560 Normatical Month	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

Strawn	Recompletion
EUR off, Mbo	4.4
Peak Tate ₃₀ , bopd	5
D _i ,%/ÿeār	48%
D _{min} , %/year	6%
b-factor	0.85
q _i , bopd	0.4
EUR gas, Mivisef	1,014
Peak rate _{so} , MCFD	869
D _p %/year	47%
D _{min} %/year	12%
b-factor	0.8 5
q _r , IMGFD	1
EUR water, Mbw	3.40
WOR, bw/bo	0.7
EUR MBOE	173



OXY USA Inc.

Esperanza 24 #1 - 30-015-34205

- 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.

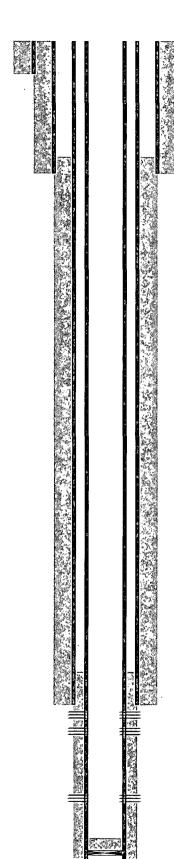
ion Fluid Vol gallons CL 2000 ear 7500 nk 15000 nk 3000	. Cum. Vol. gallons 2000 9500 24500 27500	Fluid Type acid linear fluid x-link fluid x-link fluid	Rate bpm 10 40 40	Proppant Conc.	Sand Vol.	Total Sand	Proppant Type
CL 2000 ear 7500 nk 15000 nk 3000	2000 9500 24500	linear fluid x-link fluid	10 40 40	Conc.		-	Type
ar 7500 nk 15000 nk 3000	9500 24500	linear fluid x-link fluid	40 40	-		-	
nk 15000 nk 3000	24500	x-link fluid	40	-	-	-	
nk 3000				-			
	27500	velink fluid				-	-
-1 5000		A	40	0.5	1500	1500	20/40 white
nk 5000	32500	x-link fluid	40	1	5000	6500	20/40 white
nk 7000	39500	x-link fluid	40	1.5	10500	17000	20/40 white
nk 8000	47500	x-link fluid	40	2	16000	33000	20/40 white
nk 8000	55500	x-link fluid	40	2.5	20000	53000	20/40 white
nk 8000	63500	x-link fluid	40	3	24000	77000	20/40 white
nk 8000	71500	x-link fluid	40	3.5	28000	105000	20/40 white
e 4000	75500	15# linear	40	-	-	105000	
n	k 8000	k 8000 71500	k 8000 71500 x-link fluid	k 8000 71500 x-link fluid 40	k 8000 71500 x-link fluid 40 3.5	k 8000 71500 x-link fluid 40 3.5 28000	k 8000 71500 x-link fluid 40 3.5 28000 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.

		1	7					,		
Stage	Description	Fluid Vol.	Cum. Vol.	Fluid Type	Rate	Proppant	Sand Vol.	Total Sand	Proppant	٠.
		gallons	gallons		bpm	Conc.		1	Type	
<u>o</u>	15% HCL	2000	2000	acid	10			1		
1	15# linear	10000	12000	linear fluid	50	T -	1-7	-	-	
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		
			T							

- 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



TD-11910'

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-T.OC-1620'-TS

Perfs @ 9250-9552'

Perfs @ 10305-10400'

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

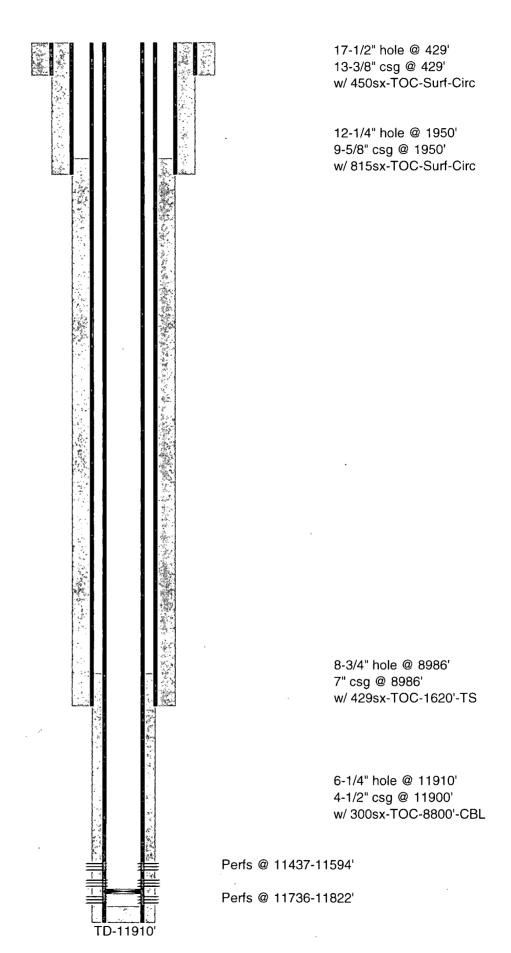
Perfs @ 11437-11594' Perfs @ 11736-11822'

CIBP @ 11660'

CIBP @ 11385' w/ 30sx to 11050'

PB-11858'

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



CIBP @ 11660'

PB-11858'