

3-21-05

DATE IN

SUSPENSE

ENGINEER

JONES

3-22-05

LOGGED IN

TYPE

DHC

PSEMO508128191

APP NO.

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- 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

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 _____

[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.

Print or Type Name

Signature

Title

Date

e-mail Address

RECEIVED

District I
1625 N. French Drive, Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

MAR 21 2005

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

**OIL CONSERVATION
DIVISION**

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

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

APPLICATION FOR DOWNHOLE COMMINGLING

Jumbo American Petroleum Corp. - 550 W. Texas, Ste 1303, Midland, TX 79701

Operator Address
Madera "19" Federal 1 4/ Sect 19, T-26-S, R-35-E Lea
Lease Well No. Unit Letter-Section-Township-Range County
NM-93223 30-025-36645
OGRID No. 226678 Property Code API No. Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Wildcat; Strawn	Jabalina; Atoka, SW	Jabalina; Atoka, SW
Pool Code	76081	79123	79123
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	14,618 - 14,772'	15,030 - 15,094'	15,217 - 15,228'
Method of Production (Flowing or Artificial Lift)	Flowing	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)	11,900 psi	12,195 psi	12,375 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1201	1139	1151
Producing, Shut-In or New Zone	New Zone	New Zone	New Zone
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: 1/22/05 Rates: 3300 MCFD 330 BOPD	Date: 12/30/04 Rates: 2650 MCFD 70 BOPD	Date: 12/17/04 Rates: 650 MCFD 0 BOPD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 83 % 50 %	Oil Gas 17 % 40 %	Oil Gas 0 % 10 %

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? 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. -per BLM form 3160-4 & attached
- Data to support allocation method or formula. -simple ratio of above numbers
- 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 Dan L. Tuffly TITLE Consulting Engineer DATE 3/14/05
TYPE OR PRINT NAME Dan L. Tuffly TELEPHONE NO. (432) 683-8000
E-MAIL ADDRESS dtuffly@sierra-engineering.net



P.O. Box 50203 Midland, Texas 79710 Phone: (915) 683-8000

Jumbo American Petroleum Corporation
Madera "19" Federal # 1
Application for Downhole Commingling
Offset Operators

Great Western Drilling Company
P. O. Box 1659
Midland, Texas 79702
Attn: Mike Heathington

Devon Energy Corporation
20 N. Broadway
Oklahoma City, Oklahoma 73102-8260
Attn: Richard C. Winchester

Pure Resources
500 W. Illinois
Midland, Texas 79701
Attn: Robert Reedy

DISTRICT I
625 N. French Dr., Hobbs, NM 88240

State of New Mexico

Form C-102

Energy, Minerals, and Natural Resources Department

Revised August 15, 2000

Submit to Appropriate District Office

State Lease - 4 copies

Fee Lease - 3 copies

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name Jabalina, SW Atoka
⁴ Property Code	⁵ Property Name MADERA "19" FEDERAL	⁶ Well Number 1
⁷ OGRID No.	⁸ Operator Name JUMBO AMERICAN PETROLEUM CORP.	⁹ Elevation 3188'

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
3	19	26 SOUTH	35 EAST, N.M.P.M.		1980'	SOUTH	1000'	WEST	LEA

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 3.20	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ 1000' 1980'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Bascom Mitchell</i> Signature Bascom Mitchell Printed Name Agent for Jumbo American Title Date 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. NOVEMBER 20, 2003 Date of Survey Signature and Seal of Professional Surveyor V. LYNN BEZNER NO. 7920 Certificate Number V. L. BEZNER R.P.S. #7920 JOB #91537 / 21 SW / J.C.P.
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REPORT DATE
12/17/04

MADERA "19" FED # 1
UPPER ATOKA SAND FRAC FLOWBACK

TIME	PSI	STATIC PRESSURE	TANK CHOKE	HRLY FLUID	TOTAL FLUID	GAS MCF	LOAD TO RECOVER	LEFT TO RECOVER	CASING PRES	HOURS	COMMENTS
					1203		2300	1097			
0500				0	1203			1097	0		
0600	1005	1000	20	0	1203	630		1097	0	1	
0700	1000	1000	20	0	1203	545		1097	0	1	
0800	1010	1000	20	2	1205	704		1095	0	1	
0900	1015	1000	20	3	1208	704		1092	0	1	
1000	1012	1000	20	1	1209	630		1091	0	1	
1100	1010	1000	20	2	1211	704		1089	0	1	
1200	1005	1000	20	2	1213	704		1087	0	1	
1300	1000	1000	20	2	1215	630		1085	0	1	take well off seperator and open up
1400	990		16	4	1219			1081	0	1	
1500	785		18	4	1223			1077	0	1	
1600	643		18	4	1227			1073	0	1	
1700	685		20	0	1227			1073	0	1	
1800	655		20	0	1227			1073	0	1	
1900	713		36	0	1227			1073	0	1	
2000	450	150	36	12	1239	2680		1061	0	1	put well back on separator ON 36/64 choke
2100	182	120	36	0	1239	957		1061	0	1	
2200	127	120	36	0	1239	677		1061	0	1	
2300	160	120	36	0	1239	524		1061	0	1	
2400	140	120	36	0	1239	428		1061	0	1	
0100	180	120	36	2	1241	605		1059	0	1	TOTAL TIME YESTERDAY
0200	220	120	36	2	1243	677		1057	0	1	TOTAL TIME FLOW BACK =
0300	180	120	36	0	1243	677		1057	0	1	LOAD TO RECOVER 2300
0400	120	120	36	2	1245	524		1055	0	1	REC LAST 24 HRS 42
0500	160	120	36	0	1245	524		1055	0	1	TOTAL RECOVERY 1245
	601.9583	TOTAL LAST 24		42		751.33				24	OVERLOAD

88.5

64.5

FROM FRAC

REPORT DATE

12/29/2004

MADERA "19" FED # 1

UPPER ATOKA LIME FLOWBACK

[illegible]

REPORT DATE
12/30/2004

MADERA "19" FED # 1
UPPER ATOKA LIME FLOWBACK

TIME		PSI	STATIC PRESSURE	TANK CHOKE	HRLY OIL REC	HRLY H2O REC	TOTAL FLUID REC	GAS MCF	LOAD TO RECOVER	OVERLOAD	LEFT TO RECOVER	CASING PRES	HOURS	COMMENTS
				POSITIVE	76	534	610		983	76	0			
0500							610		449	76	0	0		
0600	3060	360	13	3	3	3	616	2668	446	79	0	0	1	
0700	3048	360	13	3	2	2	621	2666	444	82	0	0	1	
0800	3044	360	13	2	2	2	625	2666	442	84	0	0	1	
0900	3127	360	13	2	3	3	630	2666	439	86	0	0	1	
1000	3017	360	13	2	2	2	634	2663	437	88	0	0	1	
1100	3009	360	13	4	4	4	642	2661	433	92	0	0	1	
1200	2998	360	13	2	3	3	647	2656	430	94	0	0	1	
1300	2984	360	13	3	4	4	654	2653	426	97	0	0	1	
1400	2975	360	13	2	3	3	659	2648	423	99	0	0	1	
1500	2961	360	13	3	4	4	666	2646	419	102	0	0	1	
1600	2931	360	13	2	3	3	671	2643	416	104	0	0	1	
1700	2919	360	13	2	2	2	675	2596	414	106	0	0	1	
1800	2908	360	13	2	3	3	680	2601	411	108	0	0	1	
1900	2900	360	13	2	3	3	685	2601	408	110	0	0	1	
2000	2989	360	13	2	3	3	690	2525	405	112	0	0	1	
2100	2903	360	13	2	2	2	694	2527	403	114	0	0	1	
2200	2884	360	13	2	2	2	698	2529	401	116	0	0	1	
2300	2852	360	13	2	3	3	703	2578	398	118	0	0	1	
2400	2881	360	13	3	3	3	709	2529	395	121	0	0	1	WELL SHUT IN TIME
0100	2877	360	13	2	3	3	714	2532	392	123	0	0	1	TOTAL TIME YESTERDAY
0200	2834	360	13	2	3	3	719	2532	389	125	0	0	1	TOTAL TIME FLOW BACK =
0300	2830	360	13	3	3	3	725	2580	386	128	0	0	1	LOAD TO RECOVER 983
0400	2821	360	13	2	3	3	730	2534	383	130	0	0	1	REC LAST 24 HRS 69 OIL
0500	2818	360	13	2	3	3	735	2534	380	132	0	0	1	TOTAL RECOVERY 735
	2935.217	TOTAL LAST 24	56	69				2601.417					24	OVERLOAD 132

REPORT DATE
1/22/2005

MADERA "19" FED # 1
STRAWN LIME FLOWBACK

TIME	PSI	STATIC	TANK	HRLY OIL		HRLY H2O	TOTAL	GAS	LOAD TO	OVERLOAD	LEFT TO	CASING	HOURS	COMMENTS	
		PRESSURE	CHOKE	REC	REC		FLUID REC								
			POSITIVE			629	465		1386	32	0				
0500							465		757	32	0	0			
0600	6620	500	15	0	36		501		721	32	0	100	1		
0700	6324	500	15	0	37		538		684	32	0	180	1		
0800	6093	500	15	0	36		574		648	32	0	100	1		
0900	5872	500	15	4	30		608		618	36	0	100	1		
1000	5631	500	11	18	15		641	3548	603	54	0	100	1		
1100	5510	500	11	20	10		671	3489	593	74	0	100	1	BLED CSG TO O MONITOR	
1200	5539	500	11	32	8		711	3642	585	106	0	0	1		
1300	5457	500	11	14	4		729	3632	581	120	0	0	1		
1400	5380	500	11	11	3		743	3584	578	131	0	0	1		
1500	5315	500	11	10	3		756	3535	575	141	0	0	1		
1600	5213	500	11	15	4		775	3479	571	156	0	0	1		
1700	5150	500	11	14	4		793	3422	567	170	0	0	1		
1800	5084	500	11	13	3		809	3381	564	183	0	0	1		
1900	4996	500	11	12	3		824	3336	561	195	0	0	1		
2000	4941	500	11	11	3		838	3290	558	206	0	0	1		
2100	4862	500	11	10	2		850	3286	556	216	0	0	1		
2200	4800	500	11	11	2		863	3233	554	227	0	0	1	CONDENSATE YESTERDAY	334
2300	4730	500	11	12	2		877	3236	552	239	0	0	1	TOTAL CONDENSATE ON LOC	604
2400	4665	500	11	10	2		889	3123	550	249	0	0	1	WELL SHUT IN TIME	8.5
0100	4604	500	11	10	2		901	3120	548	259	0	0	1	TOTAL TIME YESTERDAY	7.5
0200	4545	500	11	13	3		917	3064	545	272	0	0	1	TOTAL TIME FLOW BACK =	31.5
0300	4487	500	11	10	2		929	3007	543	282	0	0	1	LOAD TO RECOVER	
0400	4427	500	11	10	2		941	3001	541	292	0	0	1	REC LAST 24 HRS	218
0500	4366	500	11	10	2		953	3007	539	302	0	0	1	TOTAL RECOVERY	953
	5192	TOTAL LAST 24		270		218		3321					24	OVERLOAD	302