DHC 5/30/00

a Mallon Resources subsidiary

♦ Denver & Durango, Colorado ♦

◆ Carlsbad, New Mexico

Mr. David Catanach State of New Mexico Oil Conservation Division 2040 S Pacheco Santa Fe, NM 87505

CONCERVATION DIVISION

May 5, 2000

RE:

Application for Administrative Approval of Downhole Commingling

Jicarilla 459-17 No. 9 Sec. 17, T30N R3W

Rio Arriba County, New Mexico

Dear Mr. Catanach:

Mallon Oil Company (Mallon) operates the above-referenced well, the Jicarilla 459-17 No. 9. The well currently produces from the Ojo Alamo zone and the San Jose zones, which are completed separately. It is not economical to continue to operate both zones separately, and Mallon believes the zones should be produced at this time to prevent any further potential depletion. The pressure expected in the San Jose formation is approximately 260 psi or less. The initial Ojo Alamo reservoir pressure is in the range of 1,100 psi as detailed in the in the attachment; after drawdown has occurred, it is expected that the Ojo Alamo reservoir pressure will drop to pressures similar to the San Jose formation pressure.

Mallon respectively requests administrative approval for down-hole commingling of the Ojo Alamo and the San Jose formations in the well. The commingling is necessary to permit all zones to be effectively produced in this well. There will not be crossflow between zones. It is intended that by commingling zones the bottom hole pressure will be reduced below that of the San Jose and that the combined gas flow and open-ended tubing configuration will allow for better lifting of produced water and ultimately improved daily production. Additionally, this configuration will allow for use of a plunger lift to more consistently lift produced water from the well bore. The flowing well bottom-hole pressure will be less than the zones' reservoir pressures.

The ownership from all current producing and proposed zones is common. The enclosed attachments detail the information required by rule 303C for administrative approval of downhole commingling.

Please do not hesitate to contact me if you have any questions about this matter.

Sincerely,

MALLON OIL COMPANY

Ray E. Jones

Vice President, Engineering

Attachments

cc:

Bureau of Land Management (BLM) - Albuquerque

Banko Petroleum Management, Inc.

<sup>◆</sup> P.O. Box 2797 ◆ Durango, Colorado 81302 ◆ Phone: 970.382.9100 ◆ Fax: 970.382.7650 ◆

<sup>◆</sup> P.O. Box 3256 ◆ Carlsbad, New Mexico 88220 ◆ Phone: 505.885.4596 ◆ Fax: 505.885.0022 ◆

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

### State of New Mexico Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 Form C-107-A Revised August 1999

APPROVAL PROCESS:

X Administrative Hearing

### APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE
\_X\_YES \_\_\_NO

Mallon Oil Company Operator	999 Addres	18th Street, Suite 1700, Den	ver, CO 80202		
Jicarilla 459-17	No. 9 Unit	G (SW/4 NE/4) Sec. 17 T30 - Sec - Twp - Rge	ON R3W Rio Arriba		
OGRID NO. <u>013925</u> Property	Code <u>22211</u> API NO.		icing Unit Lease Types: (check 1 or more)		
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone		
Pool Name and     Pool Code	Cabresto Canyon San Jose Ext. 96822		Cabresto Canyon Ojo Alamo Ext. 96538		
Top and Bottom of     Pay Section (Perforations)	1,562' – 1,624'		3,190' – 3,232'		
Type of production     (Oil or Gas)	Gas		Gas		
Method of Production     (Flowing or Artificial Lift)	Flowing		Flowing		
Bottomhole Pressure     Oil Zones - Artificial Lift:	а. <sup>(Current)</sup>	a.	a. 200 psi		
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. <sup>(Original)</sup>	b.	b.		
Oil Gravity (EAPI) or     Gas BTU Content	1,087 BTU Dry @ 15.025 psia		1,095 BTU Dry @ 15.025 psia		
7. Producing or Shut-In?	Producing		Producing		
Production Marginal? (yes or no)	Yes		Yes		
* If Shut-In, give 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: N/A Rates:	Date: Rates:	Date: N/A Rates:		
* If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Date: February 2000 Rates: 433.5 mcf/d gas 0.081 mb water	Date: Rates:	Date: February 2000 Rates: 242.1 mcf/d gas 4.629 mb water		
Fixed Percentage Allocation     Formula -% for each zone     (total of %'s to equal 100%)	Oil: <b>Gas</b> : % 64.0 %	Oil: Gas: %	Oil: <b>Gas</b> : % 35.8 %		
If allocation formula is based up attachments with supporting d	oon something other than currentate and/or explaining method	nt or past production, or is based and providing rate projections or	upon some other method, submit other required data.		
10. Are all working, overriding, and If not, have all working, overrid	d royalty interests identical in a ding, and royalty interests beer	ll commingled zones? n notified by certified mail?	_XYesNo YosNo		
11. Will cross-flow occur?Y flowed production be recovered	es $X$ No If yes, are fluided, and will the allocation formula.	s compatible, will the formations ula be reliable Yes N	not be damaged, will any cross- lo (If No, attach explanation)		
12. Are all produced fluids from all	-	— <del>-</del>	<del></del>		
13. Will the value of production be 14. If this well is on, or communitize	, ,		•		
<ul> <li>14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this applicationX_YesNo</li> <li>15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S)NSL 2831-A</li> <li>16. 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, overriding, and royalty interests for uncommon interest cases.  * Any additional statements, data, or documents required to support commingling.</li> </ul>					
I hereby certify that the information	<u>a                                     </u>	•			
SIGNATURE THE	mes	TITLE V.P Engineering	DATE <u>May 5, 2000</u>		
TYPE OR PRINT NAME Ray E	E. Jones	TELEPHONE NO. (3	803) 293-2333, ext 1450		

# Mallon Oil Company

♦ Denver & Durango, Colorado ♦

♦ Carlsbad, New Mexico ♦

Mr. Brian Davis
Bureau of Land Management
Albuquerque Field Office
435 Montaño Road NE
Albuquerque, NM 87107-4935

May 5, 2000

RE:

Application for Administrative Approval of Downhole Commingling

Jicarilla 459-17 No. 9 Sec. 17, T30N R3W

Rio Arriba County, New Mexico

Dear Mr. Davis:

Enclosed please find a commingling application for the above-referenced well. The original was sent to the State of New Mexico Oil Conservation Division. Also, enclosed is a completed Sundry Notice, form 3160-5, for your use.

Please do not hesitate to contact me if you have any questions about this matter.

Sincerely,

MALLON OIL COMPANY

Ray B. Jones
Vice President, Engineering

Attachments

cc: Banko Petroleum Management, Inc.

<sup>◆</sup> P.O. Box 3256 ◆ Carlsbad, New Mexico 88220 ◆ Phone: 505.885.4596 ◆ Fax: 505.885.0022 ◆

Form 3160-5 (August 1999)

FORM APPROVED OMB No. 1004-0135

5. LEASE SERIAL NO.

# **UNITED STATES DEPARTMENT OF THE INTERIOR**

Expires: November 30, 2000

BUREAU OF LAND MANAGEME	NT	Jicarilla 459	:		
SUNDRY NOTICES AND REPORTS (	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
Do not use this form for proposals to drill, or to re	e-enter an	Jicarilla Apache			
abandoned well. Use Form 3160-3 (APD) for such	n proposals.	7. IF UNIT OR CA, AGREEMENT DESIGNATION			
SUBMIT IN TRIPLICATE		N/A			
TYPE OF WELL		8. WELL NAME AND NO.			
Oil Well Gas Well X Other:		Jicarilla 459-17 No. 9			
NAME OF OPERATOR		9. API WELL NO.			
Mallon Oil Company		30-039-25763			
ADDRESS AND TELEPHONE NO. CONTACT:	Ray E. Jones	10. FIELD AND POOL, OR EXPLORATORY	Y AREA		
	303-293-2333	E. Blanco			
Denver. CO 80202		L. Diurioo			
LOCATION OF WELL (Footage, T, R, M, or Survey Description)	T 30N R 3W	11. COUNTY OR PARISH, STATE			
1,850' FNL 2,510' FEL Sec. 17	Rio Arriba NM	I			
Unit G (SW/4 NE/4)	DE OF NOTICE DESC	DET OR OTHER BATA			
2. CHECK APPROPRIATE BOX(s) TO INDICATE NATU					
TYPE OF SUBMISSION	TY	PE OF ACTION			
X Notice of Intent	Deepen	Production (start/resume)	Water Shut-Off		
Alter Casing	Reclamation	Reclamation	Well Integrity		
Subsequent Report Casing Repair	New Construction	Recomplete X	Other		
Change Plans	Plug and Abandon	Temorarily Abandon	Commingle		
Final Abandonment Notice Convert to Injection	Plug Back	Water Disposal			
3. Describe Proposed or completed Operation (clearly state all pertine approximate duration thereof. If the proposal is to deepen direction vertical depths of all pertinent markers and zones. Attach the Bond Bond No. on file with the BLM/BIA. Required subsequent reports stoperation results in a multiple completion or recompletion in a new Abandonment Notices shall be filed only after all requirements, include site is ready for final inspection.)  Mallon Oil Company intends to commingle the been made (see attached) to the State of New mingle the Ojo Alamo and the San Jose zones.	ally or recomplete horizontal under which the work will be hall be filed within 30 days for interval, a form 3160-4 shall luding reclamation, have been of Ojo Alamo zone and Mexico Oil Conserva	illy, give subsurface locations and mea- e performed or provide the ollowing completion of the involved ope I be filed once testing has been comple en completed, and the operator has de	sured and true erations. If the eted. Final etermined that		
<ol> <li>I hereby certify that the foregoing is true and correct Name (Printed/Typed)</li> </ol>	1				
Ray E. Jones	Title: Vice Pr	esident - Engineering			
Signature Jones	Date: May 5,	2000			
	EDERAL OR STATE O	FFICE USE.			
Approved by	Title	Date			
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable little to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office				

### Application for Downhole Commingling Under NMOCD Rule 303C For Gas Wells

#### Jicarilla 459-17 No. 9

a) By operator:

Mallon Oil Company 999 18<sup>th</sup> Street, Suite 1700 Denver, CO 80202

b) In the well:

Jicarilla 459-17 No. 9

Well location: Unit G (SW/4 NE/4) Sec. 17 T30N R3W

Rio Arriba County, New Mexico

Lease description: NE Sec. 17 T30N R3W

(See attached "Well Location and Acreage Dedication Plat")

For the pools:

Cabresto Canyon - Ojo Alamo Ext Cabresto Canyon - San Jose Ext

- c) A plat of the area surrounding the Jicarilla 459-17 No. 9 well showing the ownership of direct and diagonal offset locations is included.
- d) The Ojo Alamo and the San Jose zones in this well produce dry gas; therefore, no state form C116 is required or available for the current completion.
- e) A production decline curve is included that shows the Ojo Alamo zone production. The San Jose has also been completed in this well, but is completed separately from the Ojo Alamo. A production decline curve is also included that shows the San Jose zone production.
- f) The San Jose bottom hole pressure was measured on May 16, 1999 after a one-day shut in and was 210 psi at 1,540'. The gradient is primarily filled with gas, as a static gas gradient was established very early in the test. Flowing bottomhole pressure for the Ojo Alamo was measured at 200 psi at 2,800'. It is intended that by commingling zones the bottom hole pressure will be reduced below that of the San Jose and that the combined gas flow and open-ended tubing configuration will allow for better lifting of produced water and ultimately improved daily production. Additionally, this configuration will allow for use of a plunger lift to more consistently lift produced water from the well bore.
- g) There will be no loss in total gas quality or value due to mixing of the production streams.
  - The Ojo Alamo and the San Jose zones produce gas with no condensate. A copy of a gas analysis from each of these zones is included. The gas from the Ojo Alamo is 93.5% methane; from the San Jose, 93.8% methane.
- h) Because of reduced operation costs per zone, commingling of the zones would allow each individual zone to be produced to a lower economic rate and would increase ultimate recovery from both zones.

i) No commingling presently occurs in the well.

The San Jose was flow tested during completion and has been measured during 1999. This rate and the well rate for 1999 from the Ojo Alamo will be used to determine an allocation factor. The allocation factor for the San Jose formation is 0.64

j) A reference map for the Jicarilla 459-17 No. 9 well and surrounding wells has been included. A circle with a radius of approximately one mile has been drawn around this well for reference only. The direct and diagonal offset wells:

Well Name	Location	Operator
Jicarilla 458 2	SW/4 SE/4 Sec. 7 T30 N R3W	Mallon Oil Company
Jicarilla 458 SJ 2	SW/4 SE/4 Sec. 7 T30 N R3W	Mallon Oil Company
Jicarilla 458-8 7	SE/4 NE/4 Sec. 8 T30 N R3W	Mallon Oil Company
Jicarilla 458-8 SJ 7	SE/4 NE/4 Sec. 8 T30 N R3W	Mallon Oil Company
Jicarilla 458-8 9	SW/4 SW/4 Sec. 8 T30N R3W	Mallon Oil Company
Jicarilla 458-8 SJ 9	SW/4 SW/4 Sec. 8 T30N R3W	Mallon Oil Company
Jicarilla 458-8 10	SE/4 SE/4 Sec. 8 T30N R3W	Mallon Oil Company
Jicarilla 458-8 SJ 10	SE/4 SE/4 Sec. 8 T30N R3W	Mallon Oil Company
Jicarilla 457 1	SW/4 SW/4 Sec. 9 T30 N R3W	Mallon Oil Company
Jicarilla 457 SJ 1	SW/4 SW/4 Sec. 9 T30 N R3W	Mallon Oil Company
Jicarilla 460-16 1	SW/4 NW/4 Sec. 16 T30N R3W	Mallon Oil Company
Jicarilla 460-16 SJ 1	SW/4 NW/4 Sec. 16 T30N R3W	Mallon Oil Company
Jicarilla 460-16 4	SW/4 SW/4 Sec. 16 T30N R3W	Mallon Oil Company
Jicarilla 460-16 SJ 4	SW/4 SW/4 Sec. 16 T30N R3W	Mallon Oil Company
Jicarilla 458 8	NW/4 NW/4 Sec. 17 T30N R3W	Mallon Oil Company
Jicarilla 458 SJ 8	NW/4 NW/4 Sec. 17 T30N R3W	Mallon Oil Company
Jicarilla 459 1	NE/4 SW/4 Sec. 18 T30N R3W	Mallon Oil Company
Jicarilla 459 SJ 1	NE/4 SW/4 Sec. 18 T30N R3W	Mallon Oil Company
Jicarilla 459-20 7	SW/4 SE/4 Sec. 17 T30N R3W	Mallon Oil Company
Jicarilla 459-17 10	SW/4 SW/4 Sec. 17 T30N R3W	Mallon Oil Company
Jicarilla 459 3	NE/4 NE/4 Sec. 18 T30N R3W	Mallon Oil Company
Jicarilla 459-20 7	SW/4 NE/4 Sec. 20 T30N R3W	Mallon Oil Company

The ownership of the two producing zones for the Jicarilla 459-17 No. 9 well is common so notification of this application is not necessary. The following is a list of the working, royalty, and overriding royalty interest owners for this well for both formations.

Jicarilla Apache Contract 459 MMS Aid #609-000459-0-000 Bureau of Indian Affairs PO Box 507 Dulce, NM 87528 Bayless Grandchildren's Trust c/o Tommy Roberts, Trustee PO Box 129 Farmington, NM 87499 Jaco Production Company PO Box 1807 Bakersfield, CA 93303

# Application for Downhole Commingling Jicarilla 459-17 No. 9

Jaco Production Company PO Box 1807 Bakersfield, CA 93303

Ken Kamon PO Box 10589 Midland, TX 79702

Kevin Fitzgerald c/o Mallon Oil Company 999 18th Street, Suite 1700 Denver, CO 80202

Mallon Oil Company 999 18th Street, Suite 1700 Denver, CO 80202

James R Conway Revocable Trust (1998) 912 Cheney Marion, OH 43302

William G. Dedert Trust dated 12/27/90 c/o Dedert Corporation 20000 Governor's Drive Olympia Fields, IL 60461

John Paul Simmet c/o Simcote, Inc. 1646 Red Rock Road St. Paul, MN 55119-6014 Peter C. Simmet c/o Simcote, Inc. 1646 Red Rock Road St. Paul, MN 55119-6014

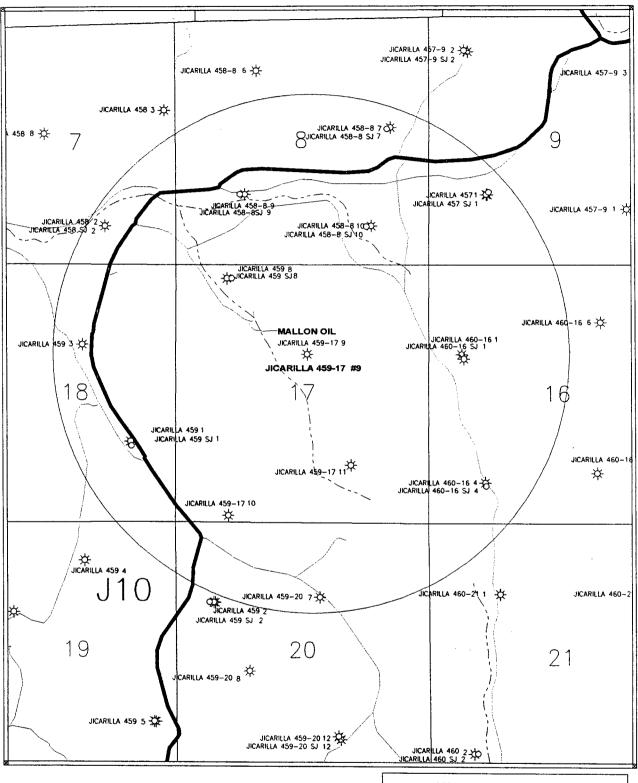
Robert Patrick Simmet c/o Simcote, Inc. 1646 Red Rock Road St. Paul, MN 55119-6014

Roger R. & Carol Irwin Mitchell 113 Cypress Cove Lane Mooresville, NC 28117

Eugene A. Lehman c/o Continental Accessories PO Box 617 Sturgis, MI 49091

Philip G. Lux 54369 Susquehanna Court Elkhart, IN 46516

Richard W. Stout PO Box 563 Bristol, IN 46507





Scale 1:24000.

0.1 0. 0.1 0.2 0.3 0.4 0.5 miles

### MALLON OIL COMPANY

One Mile Radius Map Jicarilla 459-17 #9 Rio Arriba County, New Mexico

45920_8M.GPF	J. Moore	03/30/2000

J. Hoube, N.M. 88341-1980

State of New Mexico ergy, Mnerale & Natural Resources Departm

Form C-102 Revised Febuary 21, 1884 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

mwor DD, Artesia, N.M. 88211-0719

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87604-2088

☐ AMENDED REPORT

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UNTRICT IV PO Box 2068, Santa Fe, NM 87504-2088

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013925					MALLON	OIL CO.				7165	
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, Habbs, N.M. 88241-1980

DIBLE Of New Mexico

Form C-102 Revised Febuary 21, 1994 Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

Awar DD, Artesia, N.M. 88211-0719

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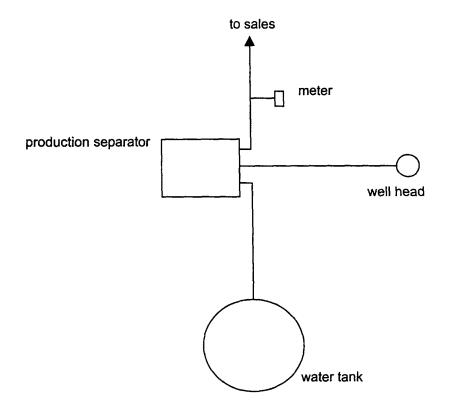
CETEUCT IV

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, NM 87604-2088

☐ AMENDED REPORT

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### Site Facility Diagram Available At:

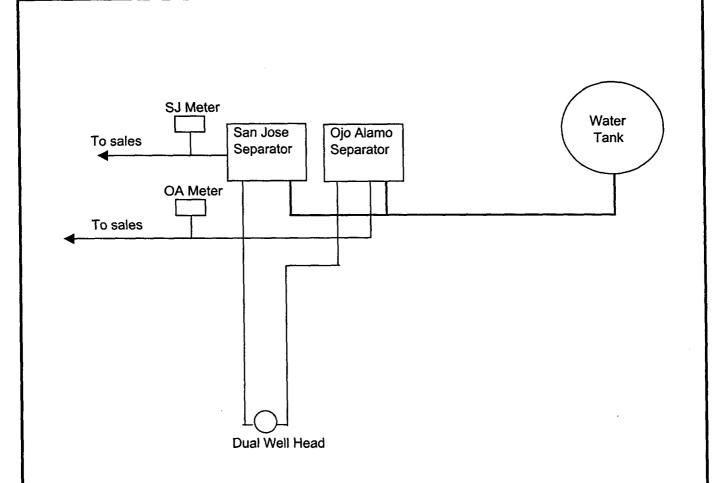
Mallon Oil & Gas Company 848 East 2nd Avenue P.O. Box 2797 Durango, CO 81302

Telephone: 970-382-9100

### Site Facility Diagram:

Company: Mallon Oil Lease: Jicarilla

Well Name: 459-17 no. 9 Location: Sec 17, T30N R3W County/State: Rio Arriba, NM



### **Dual Completion**

### Site Facility Diagram Available At:

Mallon Oil & Gas Company 848 East 2nd Avenue P.O. Box 2797 Durango, CO 81302

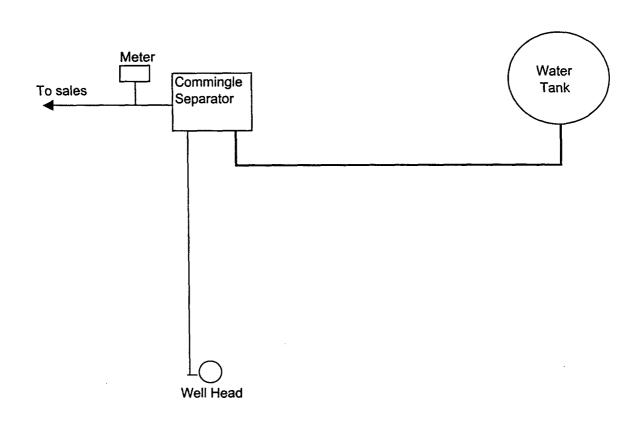
Telephone: 970-382-9100

### Site Facility Diagram:

Company: Mallon Oil

Lease: Jicarilla

Well Name: 459-17 no. 9 Location: Sec 17, T30N R3W County/State: Rio Arriba, NM



## **Commingled Completion**

### Site Facility Diagram Available At:

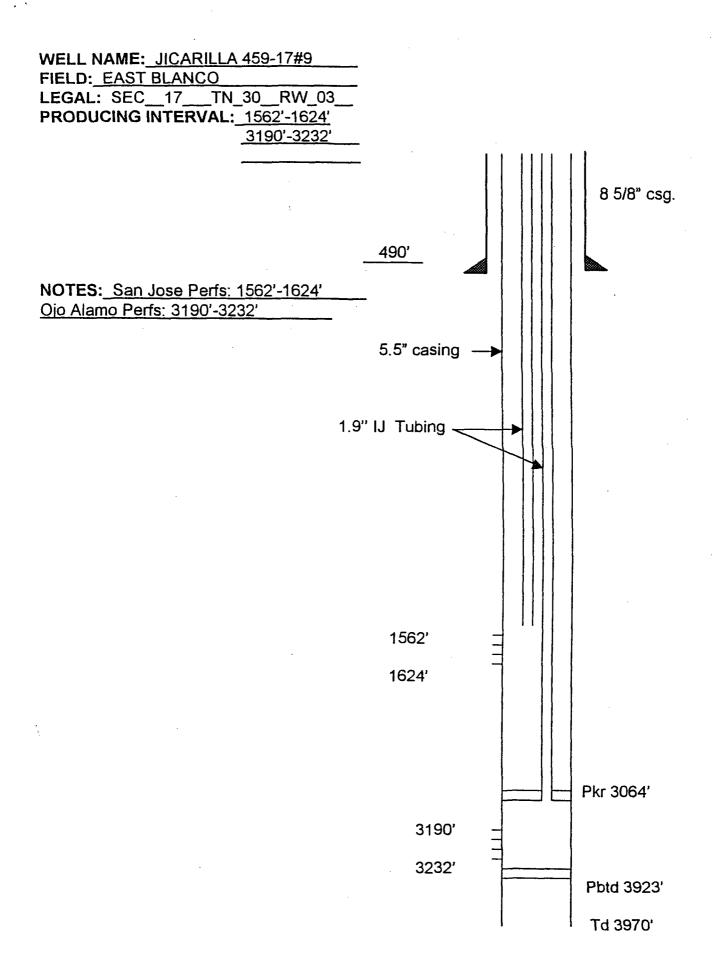
Mallon Oil & Gas Company 848 East 2nd Avenue P.O. Box 2797 Durango, CO 81302

Telephone: 970-382-9100

### Site Facility Diagram:

Company: Mallon Oil Lease: Jicarilla

Well Name: 459-17 no. 9 Location: Sec 17, T30N R3W County/State: Rio Arriba, NM



JIC 459-17 #09 (OA)
RIO ARRIBA CO., NM - G 17 T30N R03W
BLANCO EAST (OJO ALAMO)
MALLON OIL COMPANY
OJO ALAMO
1PDP

DATE: 05/03/\*\*
TIME: 08:44:13
FILE: 2000
GET: 345
STID: 102000
.CMD: JUNK
.OUT: JIC\_PROD

# P R O D U C T I O N D A T A

#### THROUGH 2/28/2000

PERIOD ENDING	DAYS PROD	OIL, MB	OIL BBL/D	GAS, MMF	GAS MCF/D	YIELD BBL/MMF	WATER, MB	WATER PCT	CUM. OIL, MB	CUM. GAS, MMF	CUM. WATER,MB	FTP,PSI
PRIOR 1/98		0.000		0.000		0.000	0.000	0.0	0.000	0.000	0.000	
1/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
2/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
3/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
4/98	30	0.000	0.0	23.837	794.6	0.000	1.334	100.0	0.000	23.837	1.334	0
5/98	31	0.000	0.0	17.520	565.2	0.000	0.883	100.0	0.000	41.356	2.217	0
6/98	29	0.000	0.0	18.243	629.1	0.000	0.946	100.0	0.000	59.599	3.163	0
7/98	30	0.000	0.0	17.875	595.8	0.000	0.922	100.0	0.000	77.474	4.085	0
8/98	31	0.000	0.0	16.901	545.2	0.000	0.721	100.0	0.000	94.376	4.806	0
9/98	30	0.000	0.0	13.366	445.5	0.000	0.678	100.0	0.000	107.742	5.484	0
10/98	26	0.000	0.0	10.179	391.5	0.000	0.654	100.0	0.000	117.920	6.138	0
11/98	30	0.000	0.0	10.235	341.2	0.000	0.522	100.0	0.000	128.155	6.660	0
12/98	31	0.000	0.0	8.052	259.8	0.000	0.506	100.0	0.000	136.208	7.166	0
YR 98	268	0.000	0.0	136.208	508.2	0.000	7.166	100.0	0.000	136.208	7.166	
1/99	31	0.000	0.0	6.707	216.4	0.000	0.374	100.0	0.000	142.915	7.540	0
2/99	28	0.000	0.0	4.875	174.1	0.000	0.232	100.0	0.000	147.790	7.772	0
3/99	17	0.000	0.0	3.354	197.3	0.000	0.041	100.0	0.000	151.144	7.813	Ō
4/99	30	0.000	0.0	6.119	204.0	0.000	0.684	100.0	0.000	157.263	8.497	Ō
5/99	16	0.000	0.0	2.994	187.1	0.000	0.178	100.0	0.000	160.257	8.676	0
6/99	1	0.000	0.0	0.001	0.9	0.000	0.000	0.0	0.000	160,258	8.676	Ō
7/99	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	160.258	8.676	0
8/99	21	0.000	0.0	6.006	286.0	0.000	0.733	100.0	0.000	166,265	9.409	0
9/99	30	0.000	0.0	9.341	311.4	0.000	0.972	100.0	0.000	175.605	10.380	ū
10/99	31	0.000	0.0	8.629	278.3	0.000	0.306	100.0	0.000	184.234	10.686	. 0
11/99	30	0.000	0.0	8.298	276.6	0.000	0.210	100.0	0.000	192.532	10.896	0
12/99	31	0.000	0.0	7.998	258.0	0.000	0.310	100.0	0.000	200.530	11.207	0
1/00	31	0.000	0.0	7.635	246.3	0.000	0.302	100.0	0.000	208.165	11.509	0
2/00	29	0.000	0.0	6.968	240.3	0.000	0.286	100.0	0.000	215.133	11.795	0
YR 00	326	0.000	0.0	78.925	242.1	0.000	4.629	100.0	0.000	215.133	11.795	
SUB												
TOTAL	594	0.000	0.0	215.133	362.2	0.000	11.795	100.0	0.000	215.133	11.795	-
TOTAL		0.000		215.133		0.000	11.795	100.0	0.000	215.133	11.795	

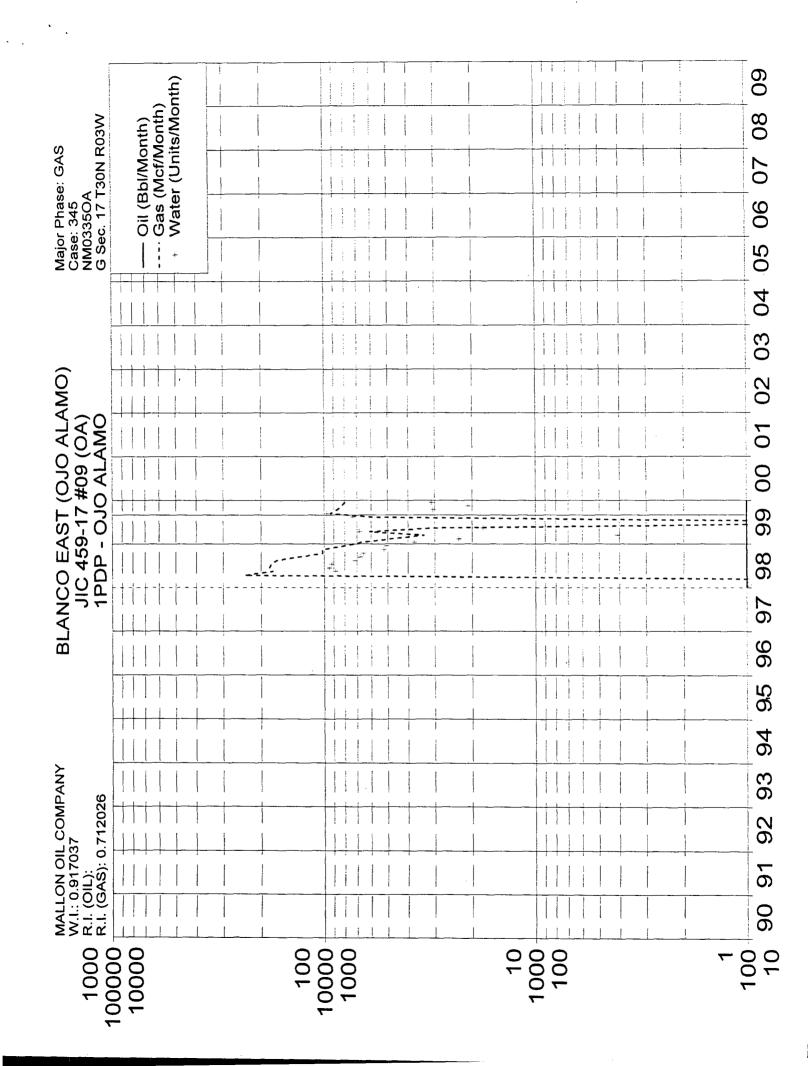
JIC 459-17 #09 (SJ)
RIO ARRIBA CO., NM - G 17 T30N R03W
BLANCO EAST (SAN JOSE)
MALLON OIL COMPANY
SAN JOSE
1PDP

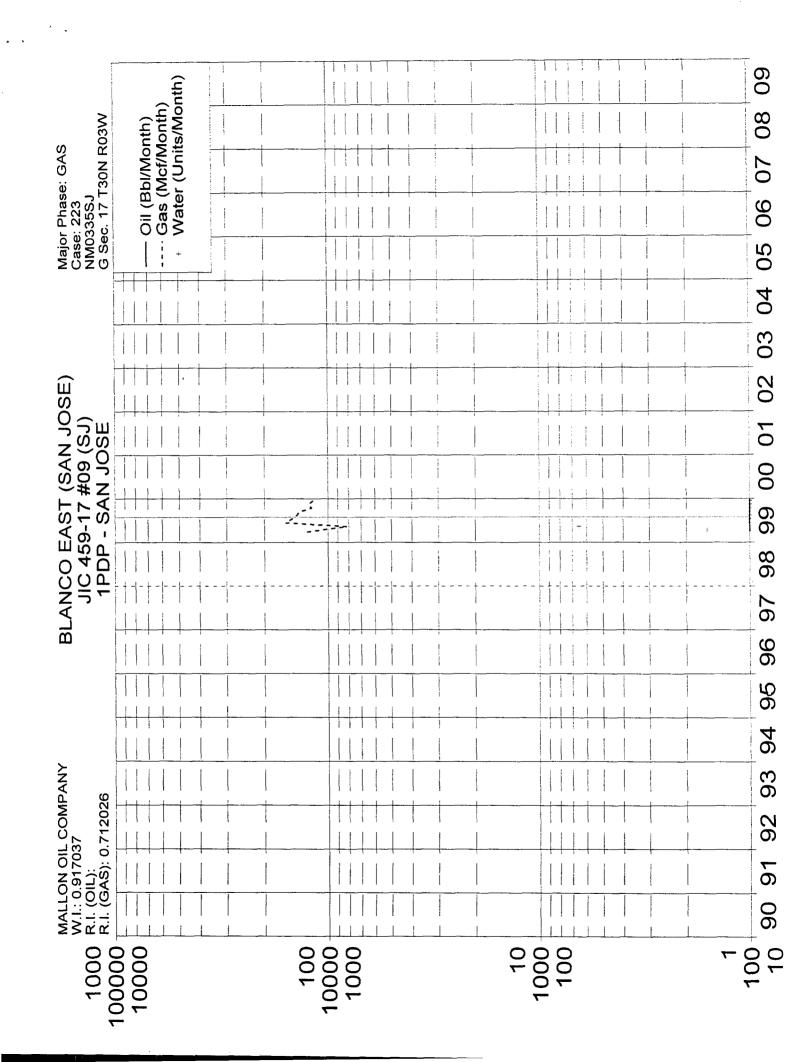
DATE: 05/03/\*\*
TIME: 08:44:13
FILE: 2000
GET: 223
STID: 192000
.CMD: JUNK
.OUT: JIC\_PROD

# PRODUCTION DATA

THROUGH 2/28/2000

PERIOD ENDING	DAYS PROD	OIL, MB	OIL BBL/D	GAS, MMF	GAS MCF/D	YIELD BBL/MMF	WATER, MB	WATER PCT	CUM. OIL, MB	CUM. GAS, MMF	CUM. WATER,MB	FTP,PSI
PRIOR										************		
1/98		0.000		0.000		0.000	0.000	0.0	0.000	0.000	0.000	
1/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
2/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
3/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
4/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
5/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	D
6/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
7/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
8/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
9/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
10/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
11/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
12/98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
YR 98	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	
1/99	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
2/99	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
3/99	0	0.000	0.0	0.000	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0
4/99	23	0.000	0.0	10.889	473.5	0.000	0.016	100.0	0.000	10.889	0.016	0
5/99	16	0.000	0.0	8.146	509.1	0.000	0.065	100.0	0.000	19.035	0.081	0
6/99	30	0.000	0.0	15.837	527.9	0.000	0.000	0.0	0.000	34.872	0.081	0
7/99	31	0.000	0.0	14.826	478.3	0.000	0.000	0.0	0.000	49.698	0.081	0
8/99	31	0.000	0.0	14.002	451.7	0.000	0.000	0.0	0.000	63.701	0.081	0
9/99	30	0.000	0.0	13.700	456.7	0.000	0.000	0.0	0.000	77.400	0.081	0
10/99	28	0.000	0.0	11.959	427.1	0.000	0.000	0.0	0.000	89.359	0.081	. 0
11/99	30	0.000	0.0	12.335	411.2	0.000	0.000	0.0	0.000	101.694	0.081	0
12/99	31	0.000	0.0	11.805	380.8	0.000	0.000	0.0	0.000	113.499	0.081	0
1/00	31	0.000	0.0	10.621	342.6	0.000	0.000	0.0	0.000	124.120	0.081	0
2/00	29	0.000	0.0	10.272	354.2	0.000	0.000	0.0	0.000	134.392	0.081	0
YR 00	310	0.000	0.0	134.392	433.5	0.000	0.081	100.0	0.000	134.392	0.081	
SUB												
TOTAL	310	0.000	0.0	134.392	433.5	0.000	0.081	100.0	0.000	134.392	0.081	-
TOTAL		0.000		134.392		0.000	0.081	100.0	0.000	134.392	0.081	







2030 AFTON PLACE FARMINGTON, N.M. 87401 (505) 325-6622

ANALYSIS NO. CES90186

CUST. NO.

16900-10235

### WELL/LEASE INFORMATION

CUSTOMER NAME CDS ENVIROMENTAL SVCS

JIC 459-17 # 9 OA WELL NAME

COUNTY/STATE

RIO ARRIBA

**OJO ALAMO** 

NM

SOURCE

PRESSURE

N/A 58 PSI

SAMPLE TEMP

DEG.F

**WELL FLOWING** 

N/A

DATE SAMPLED

7/8/99 JDW

SAMPLED BY

FOREMAN/ENGR.

REMARKS

LOCATION

FORMATION

CUST.STN.NO.

**FIELD** 

MALLON OIL COMPANY

H2S = 8 PPM

#### **ANALYSIS**

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.466	0.0000	0.00	0.0045
CO2	0.016	0.0000	0.00	0.0002
METHANE	93.543	0.0000	946.94	0.5182
ETHANE	5.025	1.3442	89.13	0.0522
PROPANE	0.373	0.1028	9.41	0.0057
I-BUTANE	0.159	0.0520	5.18	0.0032
N-BUTANE	0.041	0.0129	1.34	0.0008
I-PENTANE	0.053	0.0194	2.13	0.0013
N-PENTANE	0.009	0.0033	0.36	0.0002
HEXANE PLUS	0.315	0.1374	16.19	0.0101
TOTAL	100.000	1.6720	1,070.68	0.5964

<sup>\* @</sup> 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

<sup>\*\* @</sup> 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z)	1.0023
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	1,073.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	1,054.5
REAL SPECIFIC GRAVITY	0.5978

### ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,067.3	CYLINDER #	5EK081
DRY BTU @ 14.696	1,070.7	CYLINDER PRESSURE	40 PSIG
DRY BTU @ 14.730	1,073.1	DATE RUN	7/16/99
DRY BTU @ 15.025	1,094.6	ANALYSIS RUN BY	ANDREW ZEC



2030 AFTON PLACE FARMINGTON, N.M. 87401 (505) 325-6622

ANALYSIS NO.

CES90187 16900- 10415

CUST. NO.

#### WELL/LEASE INFORMATION

CUSTOMER NAME CDS ENVIROMENTAL SVCS

WELL NAME COUNTY/STATE

JIC 459-17 # 9 SJ **RIO ARRIBA** 

NM

SOURCE PRESSURE N/A

**58 PSI** 

SAMPLE TEMP **WELL FLOWING**  DEG.F

**DATE SAMPLED** 

N/A

SAMPLED BY

7/8/99 **JDW** 

FOREMAN/ENGR.

FORMATION

LOCATION

**FIELD** 

SAN JOSE

CUST.STN.NO.

REMARKS

MALLON OIL COMPANY

H2S = 6 PPM

#### **ANALYSIS**

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.418	0.0000	0.00	0.0040
CO2	0.014	0.0000	0.00	0.0002
METHANE	93.846	0.0000	950.00	0.5198
ETHANE	4.936	1.3204	87.55	0.0512
PROPANE	0.369	0.1017	9.31	0.0056
I-BUTANE	0.164	0.0536	5.35	0.0033
N-BUTANE	0.046	0.0145	1.50	0.0009
I-PENTANE	0.054	0.0198	2.17	0.0013
N-PENTANE	0.010	0.0036	0.40	0.0002
HEXANE PLUS	0.143	0.0624	7.35	0.0046
TOTAL	100.000	1.5760	1,063.63	0.5914

<sup>\* @</sup> 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

<sup>\*\* @</sup> 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z)	1.0023
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	1,066.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	1,047.5
REAL SPECIFIC GRAVITY	0.5925

### ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,060.3	CYLINDER #	E1989
DRY BTU @ 14.696	1,063.6	CYLINDER PRESSURE	45 PSIG
DRY BTU @ 14.730	1,066.1	DATE RUN	7/15/99
DRY BTU @ 15.025	1,087.4	ANALYSIS RUN BY	ANDREW ZEC