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UNOCAL

July 6, 1992

Unocal North American
Oil & Gas Division

Farmington DistrictCertified Return Receipt P 671 272 502

New Mexico Oil Conservation Division 310 Old Santa Fe Trail, Box 2088 Santa Fe, NM 87504-2088 Attn: David Catanach

SUBJECT:

Requesting Approval for Exception to Rule 303-A for Gas and Oil Production Rincon Unit, Well No. 180-M Sec 21, T-27-N, R-6-W Rio Arriba County, New Mexico

Union Oil Company of California, dba Unocal, requests permission to surface commingle gas and condensate from its Rincon Unit, Well No. 180-M, Rio Arriba County, New Mexico. The following describes and demonstrates how Unocal proposes to allocate gas production under the context of BLM Onshore Oil and Gas Order No. 5, Measurement of Gas for commingling, and allocate condensate under the New Mexico Oil Conservation Commission Manual for the Installation and Operation of Commingling Facilities.

The Rincon Unit, No. 180-M well is a development gas well scheduled to be drilled by Unocal. The well is to be completed as a dual Dakota/Mesa Verde producer; and it is anticipated that it will be ready for pipeline deliveries August 24, 1992. The local gas gathering company, El Paso Natural Gas (EPNG), has requested that Unocal deliver this gas to a pre-determined tie-in point on their gathering system. EPNG wishes only to set one sales meter, at this tie-in point, in order to minimize chart handling.

Unocal is proposing to set two allocation meters at the well site and measure gas from each stream separately. Downstream of the allocation meters the gas will be surface commingled in the flow line and measured again at the EPNG sales meter downstream (Exhibit No. 1). Royalties will be paid based on the gas volume measured at EPNG's sales meter.

Unocal is also proposing to surface commingle produced fluids from the individual separators into a common stock tank. Royalties will be paid on the liquid volumes sold from the tank (Exhibit No. 2).

The proposed location is within existing Dakota and Mesa Verde participating areas within the Rincon Unit (Exhibit No. 3). The lease is a federal lease and it is described in Exhibit No. 4. The royalty ownership in the two formations is the same on this tract.

Unocal is requesting from the New Mexico Oil Conservation Division, approval for surface commingling of the produced gas, and the following method of allocating production from the central meter to the individual meters. Unocal will calculate a monthly allocation factor, as shown in Exhibit No. 5, part 1. The allocation factor will then be used as illustrated in Exhibit No. 5, part 2, to determine individual meter volumes. To ensure the accuracy of the individual meters, Unocal will continue to calibrate, perform orifice plate inspections, and settlement tests as described in BLM Onshore Oil and Gas order No. 5, Measurement of Gas.

Unocal is also requesting approval for surface commingling of the produced condensate, and the following method for allocating production. Unocal will conduct initial condensate production tests of equivalent time frames for each of the two zones. The condensate produced during the test period from each pool will be used to calculate an average daily rate (Exhibit No. 6, Part 1). Each month this rate will be multiplied by the days on production, to yield a volume produced for the month (Exhibit No. 6, Part 3). The corrected volumes will be allocated as per Exhibit 6, Part 5. To ensure the accuracy of the allocation factor, Unocal proposes to retest the zones six months after the initial test and then annually thereafter.

Should you have any questions or need any additional information to process this request, please feel free to contact me at the above letterhead address or phone.

Very truly yours,

Union Oil Company of California dba Unocal

Glen O. Papp

District Production Engineer

pmh

Attachment

cc:NMOCD Aztec Office--Frank Chavez BLM--Ken Townsend

EXHIBIT No. 1 UNOCAL ®

GAS ACCOUNTING SCHEMATIC
RINCON UNIT # 180-M
RIO ARRIBA COUNTY, NEW MEXICO

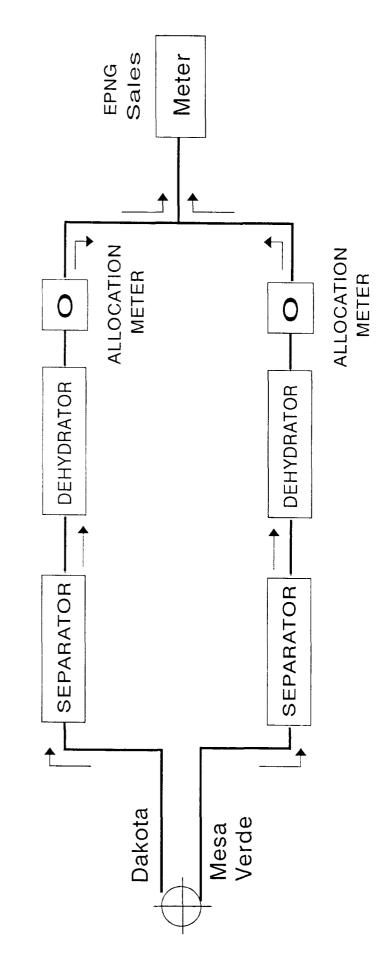
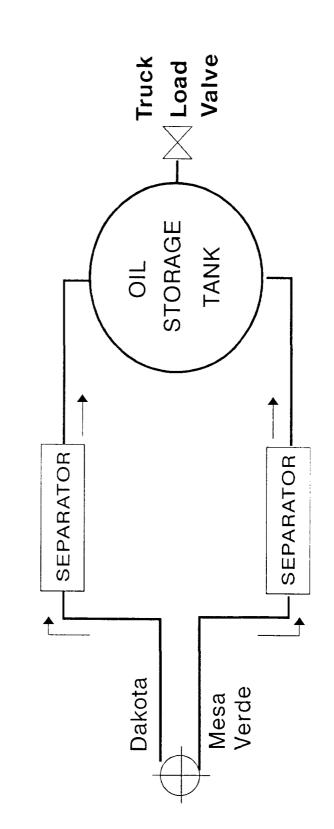
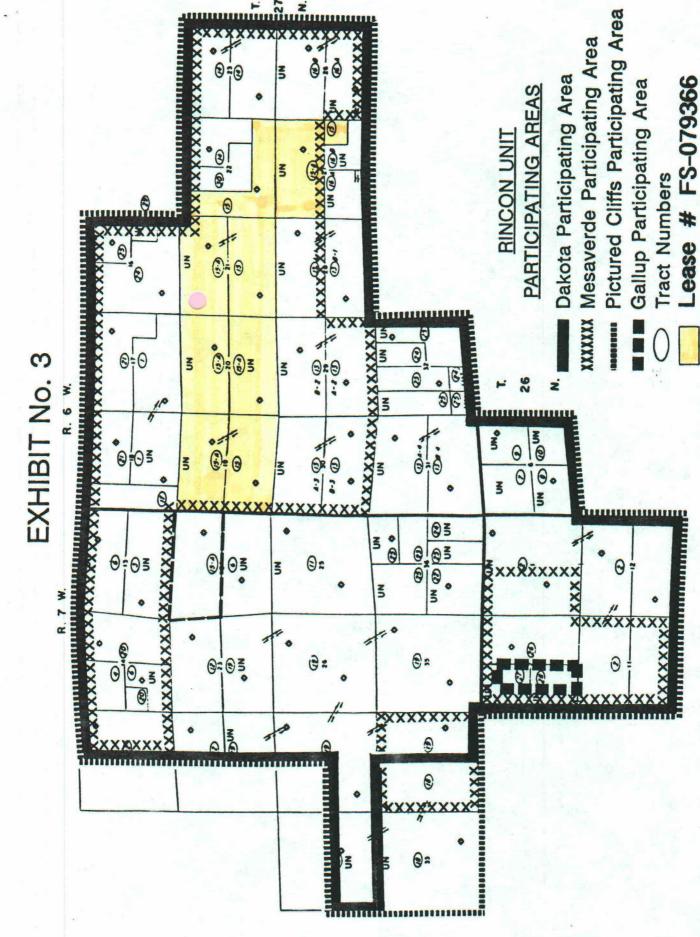


EXHIBIT No. 2 UNOCAL ®

CONDENSATE ACCOUNTING SCHEMATIC
RINCON UNIT # 180-M
RIO ARRIBA COUNTY, NEW MEXICO





Rio Arriba County, New Mexico

Proposed Well #180-M

EXHIBIT NO #4 LEASE DISCRIPTION

FEDERAL LEASE	# ACRES	DESCRIPTION			
SF - 079366		SEC.s 19, 20, 21 ALL SEC 22: W/2 NW/4, W/2 SW/4, SE/4 SW/4, S/2 SE/4 SEC 23: N/2, NE/4 SE/4			

OTHER WELLS ON LEASE # SF - 079366

PRODUCING						
WELL #	ZONE		LOCATIO)N	WELL STATUS	
8	MV	1450'	FSL, 1450'	FWL, Sec. 20	Producing	
29	MV	1180'	FNL, 815'	FWL, Sec. 22	Producing	
3 3	MV	802'	FSL, 950'	FEL, Sec. 22	Producing	
52	PC	1650'	FNL, 990'	FEL, Sec. 20	Producing	
98	MV	99O,	FNL, 990'	FEL, Sec. 21	Producing	
98	PC	990,	FNL, 990'	FEL, Sec. 21	Producing	
99 – A	MV	1760'	FNL, 810'	FEL, Sec. 27	Producing	
99	MV	1025'	FNL, 1025'	FEL, Sec. 27	Producing	
99	PC	1025'	FNL, 1025'	FEL, Sec. 27	Producing	
107	MV	1500'	FSL, 1500'	FWL, Sec. 19	Producing	
108-A	MV	1460'	FSL, 1020'	FEL, Sec. 19	Producing	
108	DK	1750'	FNL, 1750'	FEL, Sec. 19	Producing	
108	MV	1750'	FNL, 1750'	FEL, Sec. 19	Producing	
109	PC	1050'	FNL, 840'	FWL, Sec. 19	Producing	
110	PC	990'	FSL, 1700'	FEL, Sec. 19	Producing	
111	PC	1650'	FNL, 1165'	FWL, Sec. 20	Producing	
112	PC	990'	FSL, 1450'	FEL, Sec. 20	Producing	
113	MV	1500'	FNL, 800'	FEL, Sec. 20	Producing	
114	PC	1790'	FSL, 1800'	FWL, Sec. 20	Producing	
115	MV	1550'	FSL, 1550'	FWL, Sec. 21	Producing	
116	PC	890'	FNL, 990'	FWL, Sec. 21	Producing	
117	PC	1750'	FSL, 990'	FEL, Sec. 21	Producing	
119	PC	1100'	FSL, 900'	FWL, Sec. 22	Producing	
120	PC	1500'	FNL, 840'	FWL, Sec. 22	Producing	
141	PC	9 9 0'	FNL, 1550'	FWL, Sec. 27	Producing	
142	PC	1650'	FSL, 1040'	FEL, Sec. 27	Producing	
158	DK	1090'	FSL, 1450'	FWL, Sec. 22	Disconnected	
165	DK	1450'	FNL, 1600'	FEL, Sec. 27	Producing	
170	DK	990'	FSL, 790'	FWL, Sec. 20	Producing	
171	DK	890.		FWL, Sec. 21	Producing	
174	DK	990'		FWL, Sec. 19	Producing	
175	DK		•	FEL, Sec. 20	Producing	
180	DK			FEL, Sec. 21	Producing	
195	PC			FEL, Sec. 19	Producing	
240	FC			FWL, Sec. 18	Producing	
241	FC		FSL, 990'	FWL, Sec. 22	Producing	
254	FC 		FNL, 794'	FEL, Sec. 20	Producing	
255	FC			FWL, Sec. 20	Producing	
261	FC	798'		FWL, Sec. 29	Producing	
263	FC			FEL, Sec. 19	Producing	
264	FC	1200'	FSL, 798'	FWL, Sec. 19	Producing	

EXHIBIT #5 GAS ALLOCATION CALCULATIONS

I) Allocation Factor (AF):

$$AF = \frac{\text{Integrated Central Meter Volume (MCF/MO)}}{\sum_{1}^{2} \text{Integrated Individual Meter Volumes (MCF/MO)}}$$

2) Allocation to Individual Zones:

Zone	Integrated Individual	Monthly AF	Allotted Volume
	Meter Volume		(MCF/MO)
Mesa Verde	Vol 1	AF	Vol, x AF
Dakota	Vol ₂	AF	Vol ₂ x AF

EXHIBIT #6 CONDENSATE ALLOCATION CALCULATIONS

1) Production Test completed on both zones, yields:

Mesa Verde Test Rate =
$$R_1$$
 (BPD)
Dakota Test Rate = R_2 (BPD)

2) Days On / Month

- 3) i) Actual Total Monthly Gauge Volume: G (BPM)
 - ii) Calculated Individual Volumes:

Mesa Verde =
$$R_1 \times A$$

Dakota = $R_2 \times B$
Total Volume = $R_1(A) + R_2(B)$

4) Allocation Factor (AF):

$$AF = \frac{G}{R_1(A) + R_2(B)}$$

5) Corrected Allocation Volumes:

Mesa Verde =
$$AF \times R_1(A)$$

Dakota = $AF \times R_2(B)$