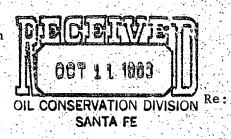
CAULKINS OIL COMPANY

P. O. BOX 780
FARMINGTON, NEW MEXICO 87401 PEGEIVE
September 29, 1983

RECEIVED
SEP301983

Mr Frank Chavez Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410



OIL CON. DIV.

Downhole Commingle Caulkins Oil Company Breech 307 M Unit O, Sec. 13 26N 7W Rio Arriba County, New Mexico

Dear Frank:

As per instructions Order No. R-6882, Rule 303C, We hereby request administrative approval for downhole commingling of Mesa Verde and Dakota zones in above described well.

In support of this request we submit the following:

Zones are not economically producable to complete as singles, no cross flow should occur providing well is not shut in for extended period, the ownership of this well is common for both working interst and royalty intersts. Bottom hole pressue as measured by BHP Gauge, 1050# for Mesa Verde Zone and 1175# for Dakota Zone at common depth of 4645.

Acopy of BHP surveys and plat showing acreage dedication and offset operators attached.

WELL COMPLETION HISTORY

TD 6888 reached 8-9-83. New 5 1/2" 15.5 and 17# casing run to 6888. Cemented in three stages. First and second stages circulated. Temperature survey shows top of third stage cement to be 925.

	Dakota zone perforated 6652 to 6818.	
8-18-83	Fractured Dakota zone with 162,000# sand and 2752 bbls. fluid. Perforate	
	Mesa Verde zone 4534 to 4756. Fractured perforations with 80,000# sand an	nd
	1472 bbls. fluid.	

8-19-83 Recovered BP then flowed well until 8-25-83 to clean up. Shut in for test 8-25-83.

9-2-83 Potential test with zones commingled. SICP 1225#, SITP 225, After 3 hours thru 3/4" choke, CP 525, TR 75#, Rate of flow 1,232 MCFPD.

9-3-83 Ran 1 1/4" NU 10 rd thd tubing to 6751 with Baker Model R production packer set at 4850 to separate zones. Ran 1 1/4" NU 10 rd thd tubing to 4835 for Mesa Verde production. Well then shut in for 7 day buildup.

9-10-83 Ran BHP surveys on both zones. Test results attached.

Ran potential test on Dakota zone after BHP test. SITP 887#, Rate of flow after 3 hrs. thru 3/4" choke 949 MCFPD. Mesa Verde zone would not flow under its own power.

9-12-83 Pulled tubing from both Mesa Verde and Dakota Zones.

- 9-13-83 Set BP at 3500' to shut off Mesa Verde and Dakota zones. Perforated Chacra zone 3231 to 3323. Fractured perforations with 60,000# sand and 1449 bbls fluid. Set BP at 2375'. Perforated Pictured Cliffs zone 3381 to 2362. Fractured perforations with 75,000# sand and 1451 bbls fluid.
- 9-14-83 Recovered BP's at 2375 and 3500.
- 9-15-83 Ran 1 1/4" NU 10 rd thd. V-55 smls tubing to 6682 with Baker Model R double grip packer set at 3337' for commingled Mesa Verde Dakota production. Ran 1 1/4" NU 10 rd thd. V-55 smls. tubing to 3300' for commingled Pictured Cliffs Chacra production. Pictured Cliffs-Chacra commingling approved on Order No. R-5648. Allocation 70% Pictured Cliffs and 30% Chacra.

From results of production tests run 9-2-83 and 9-10-83 we recommend production be split as follows:

77% of all gas and 50% of all oil to Dakota Zone.

23% of all gas and 50% of all oil to Mesa Verde zone.

Well number 307 now commingled in Mesa Verde and Dakota zones. Commingling approved on order No. R-5403. 307 allocation of production 85% of all gas and 75% of all oil to Dakota Zone. Mesa Verde zone 15% of all gas and 25% of all oil.

Yours very truly,

CAULKINS OIL COMPANY

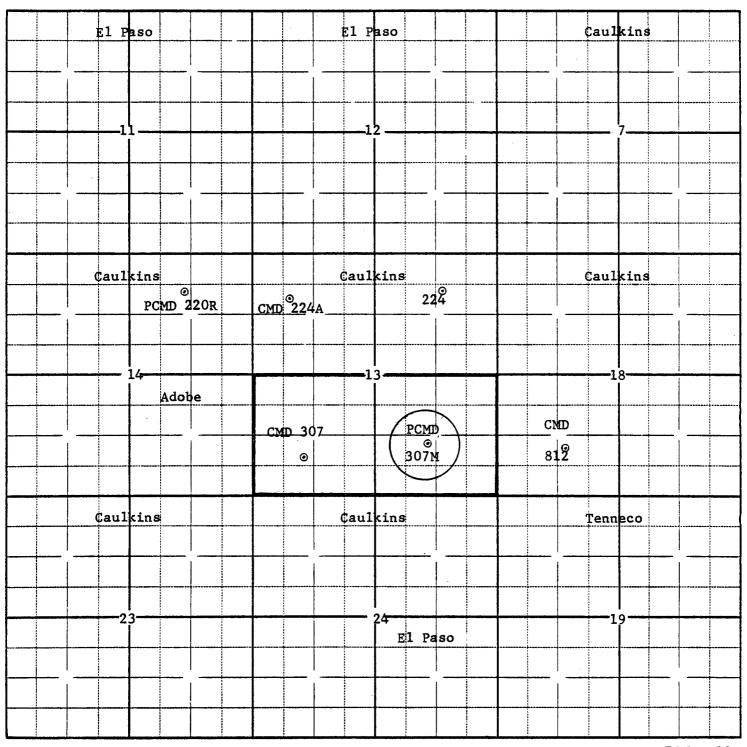
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BLM, Farmington, New Mexico El Paso Natural Gas Company Tenneco



Township	26 North	Range	7 West	. County	Rio Arriba	. State	New Mexico
Lownship	ZO NOTELI	Kange	/ MEDC	. County	KIO ALLIDA	. State	Mem Lievico

Caulkins Oil Company
Breech 307-M
SE 1/4, Section 13, 26 North, 7 West
Rio Arriba County, New Mexico





FORM 53

Adobe Oil Company



MIDLAND, TEXAS / FARMINGTON, NEW MEXICO GRAND JUNCTION, COLORADO

P. O. Box 5247 Midland, Texas 79704 (915) 682-5574

September 19, 1983

Caulkins Oil Company Box 340 Bloomfield, New Mexico 87413

Attention: Mr. Charles Verquer

OCT 11 1983

OIL CONSERVATION DIVISION SANTA FE

Subject:

Bottom Hole Pressure Measurements

Breech No. 307-M Basin Dakota Field

Rio Arriba County, New Mexico

Our File No. 2-13899-P

Gentlemen:

Attached hereto are the results of bottom hole pressure measurements which were conducted on the above captioned well September 10, 1983.

The data presented are in tabular and graphical form.

It has been our pleasure to have conducted this service for you. If we may be of further assistance, please call us at any time.

Respectfully submitted,

H. Mr. Jaylor

TEFTELLER, INC.

G. W. Taylor

Operations Manager

GWT/ar

SEP301983.
OIL CON. DIV.)
DIST. 3



Page ____1 of ____2 File ____2-13899-P

_ Well No. <u>3</u>07-M Company CAULKINS OIL COMPANY **BREECH** ____Lease _ RIO ARRIBA BASIN DAKOTA ___ State . Field -Test Date SEPTEMBER 10, 1983 Formation DAKOTA Status of Well Shut-in 15% hours GRADIENT **DEPTH PRESSURE** Psi/Ft. Feet Psig 2400-887 10 0.025 2000 937 0.031 998 4000 0.389 1775 6000 0.433 1920 6335 6535 2007 0.435 2000 2094 0.435 6735* *Mid-Perf 1600-Datum Pressure Psig 800 400 Elev. Datum Total Depth 6830 Perf. 6652-6818 Ft. Tubing 11/4 in. to 6751 Ft. Casing $5\frac{1}{2}$ in. to 6830 Ft. Casing Press.PKR. Tubing Press. 887 Oil Level Water Level 4221 **Temperature** °F @ Ft. Element No. 31196 Range 0-3000 Last Test Date Pressure Last Test Date Psig B.H.P. Change Psi -50b0 60b0 4000 2000 3000 1000

DEPTH: FEET

PRESSURE POUNDS PER SQUARE INCH GAUGE



Page 2 of 2

MIDLAND, TEXAS Company <u>CAULKINS OIL COMPANY</u> BREECH 307-M Well No. __ Lease State NEW MEXICO RIO ARRIBA County ___ Field _ Formation MESA VERDE SEPTEMBER 10, 1983 Test Date Status of Well PRESSURE DEPTH GRADIENT Psig Feet Psi/Ft. 2400-525 10 2000 557 0.016 4000 775 0.109 0.388 870 4245 0.445 4445 961 0.445 4645* 1050 2000-*Mid-Perf 1600-Datum Pressure Psig 1200-800-Elev. Datum Total Depth 6830 Perf. 4534-4756 Ft. 4835 Tubing 11/2 in. to Ft. Casing $5\frac{1}{2}$ 6830 in. to Ft. Tubing Press. 525 Casing Press. Oil Level 3398 Water Level 4117 Temperature °F @ Ft. 0-3000 Element No. 31196 Range Last Test Date Pressure Last Test Date Psig B.H.P. Change 5000.

DEPTH: FEET

PRESSURE POUNDS PER SQUARE INCH GAUGE



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

BOX 2088 SANTA FE, NEW MEXICO 87501		
RE: Proposed MC Proposed DHC & Proposed NSL Proposed SWD Proposed WFX Proposed PMX		1 1983
Gentlemen:		
I have examined the application dated_	9-30-83	
for the Company Operator Lo	Dreak#30)M ease and Well No.	0-13-260 -1W
and my recommendations are as follows:		
Yours truly,		
Bred. Clary		