

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐DEEPEN ☒PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☒

2. NAME OF OPERATOR

Caulkins Oil Company

3. ADDRESS OF OPERATOR

P.O. Box 780, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1925' F/S and 720' F/W

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

30 Miles Southeast of Blanco, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

715'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

120'

16. NO. OF ACRES IN LEASE

2240

19. PROPOSED DEPTH

7550'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320 Infil

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6668' DF

22. APPROX. DATE WORK WILL START*

June 15, 1980

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
6 1/4"	4 1/2"	11.6#	7550'	Sufficient to circulate

Present Condition: *Formerly well # 58, Breech E.*TD--6890'. 7" 23# J-55 8rd thd at 6890'. Cemented 1st Stage thru shoe with 200 sacks.
2nd Stage thru tool at 5545' with 300 sacks.

8-24-56 Plugged back to TD 4200'.

8-27-56 Perforated 7" casing 3957' to 4053' and completed as single Chacra well.

It is now proposed to clean out to TD then deepen well to Dakota Zone at approx. 7550'.
4 1/2" 11.6# liner will be run from approx. 6750' to TD and then cemented with sufficient
cement to circulate.Well will be completed in Chacra, Mesa Verde and Dakota Zones, with packer between
Mesa Verde and Dakota Zones. Chacra and Mesa Verde Zones will be cemented in wellbore,
(OVER)IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive
zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout
preventer program, if any.

24.

SIGNED

Charles E. Dugan

TITLE

Superintendent

DATE 1-11-80

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVAL DATE

APPROVED BY

AS AMENDED

TITLE

DATE JAN 17 1980

CONDITIONS OF APPROVAL, IF ANY:

MAR 2 1980
James F. Sims
JAMES F. SIMS
DISTRICT ENGINEER*oh 3rd*

U.S. GEOLOGICAL SURVEY

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

★ U.S. GOVERNMENT PRINTING OFFICE : 1965-O-711-396

Subject to approval by New Mexico Oil Conservation Division. Hearing scheduled for commingling January 30, 1980.

This well will be a Dakota Infil well as approved in Order No. R-1670-V.

To conform with numbering of Infil wells this well No. changed from 581 to 583 M.

2 3/8" 4.7# EUE 8rd tubing will be run thru packer to Dakota perforations. 1 1/4" 2.3# NU 10rd tubing will be run to Mesa Verde perforations for commingled Chacra, Mesa Verde Production.

A Shaffer 10" Model LWP, 6000# test, 3000# WP BOP will be in use at all times while deepening and cementing well. BOP will be tested at least once during each 24 hr. a day.

No new surface to be disturbed. Old location will be dressed off and old reserve pit will be rebuilt to contain drilling fluids and frac water while drilling and completing.

All disturbed area will be cleaned up and reseeded to within 5' of all facilities with BLM approved seeding program.

This acreage dedicated to Gas Company of New Mexico in all three zones.

All distances must be from the outer boundaries of the Section

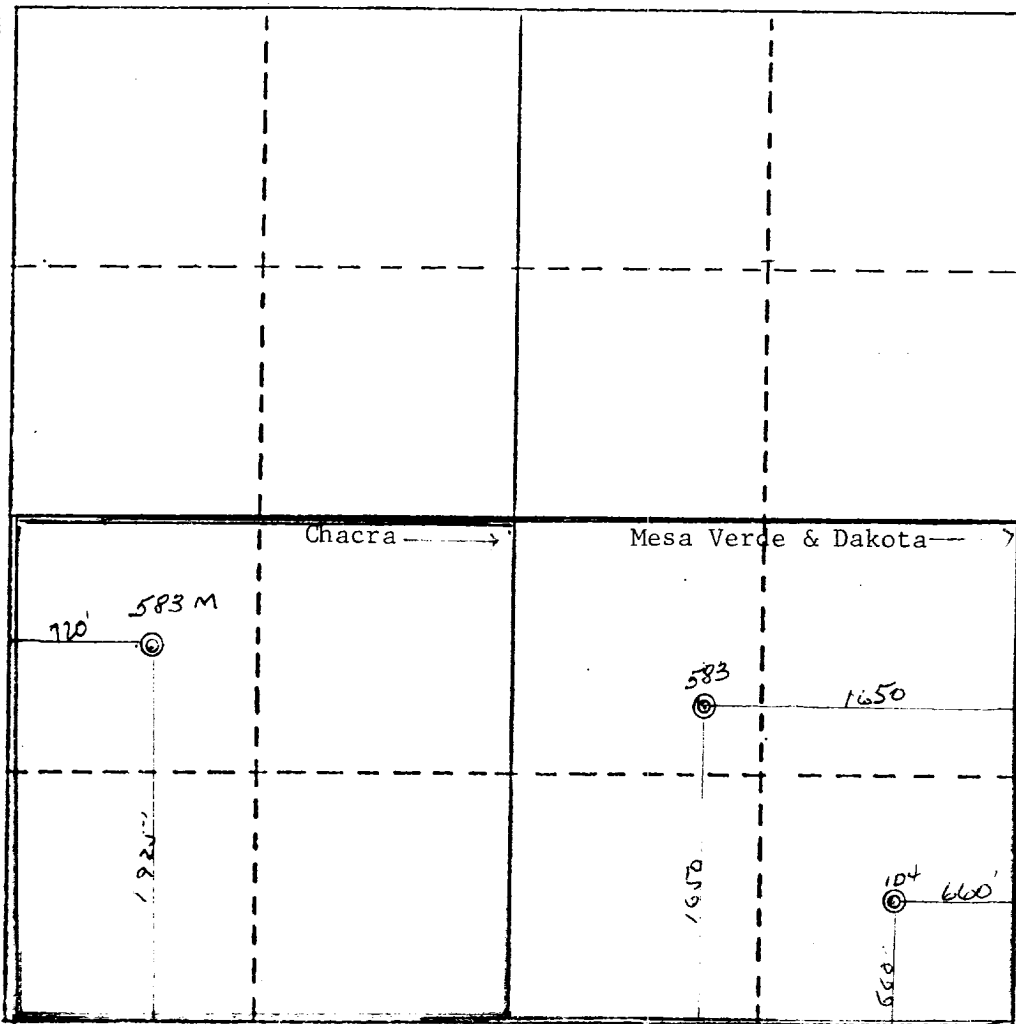
Operator Caulkins Oil Company			Lease Breach E		Well No. 583 M
Unit Letter L	Section 5	Township 26 North	Range 6 West	County Rio Arriba	
Actual Footage Location of Well:					
1925 feet from the South line and		720 feet from the West line			
Ground Level Elev. 6656	Producing Formation Chacra-Mesa Verde-Dakota	Pool Otero Chacra Blanco Mesa Verde Basin Dakota	Dedicated Acreage: 160 Chacra 320 MV & Dak. Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

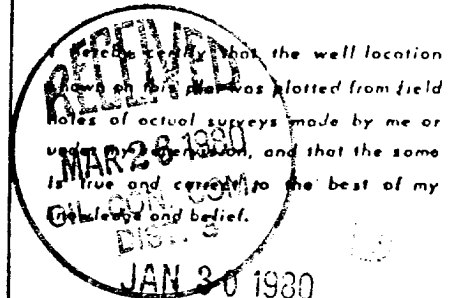
Charles E. Verquer

Name
Charles E. Verquer

Position
Superintendent

Company
Caulkins Oil Company

Date
1-28-80



Date Surveyed
24 S. GEOLOGICAL SURVEY

Registered Professional Engineer
and/or Land Surveyor

Ernest V. Echohawk

Certificate No.
3602

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other ☐
2. NAME OF OPERATOR
Caulkins Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 780, Farmington, New Mexico
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: **1925' F/S and 720' F/W**
AT TOP PROD. INTERVAL: **Same**
AT TOTAL DEPTH: **Same**
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Supplement to AFD		

5. LEASE 10-03551	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME Breech E	
9. WELL NO. 583 N	
10. FIELD OR WILDCAT NAME Otero Chacra, Blanco Mesa Verde, Basin Dakota	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 5, 26 N 6W	
12. COUNTY OR PARISH San Arriba	13. STATE New Mexico
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 6668 DF	

(NOTE: Report results of multiple completion or zone
completion.)

ILLECIBLE

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Estimated Formation Tops:

Greenhorn	7165
Graneros	7291
Dakota	7435



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED *Charles J. [Signature]* TITLE **Superintendent** DATE **3-21-80**

(This space for Federal or State office use)

ACCEPTED FOR RECORD

CONDITIONS OF APPROVAL, IF ANY: _____ TITLE _____ DATE _____

MAR 25 1980

*See Instructions on Reverse Side

BY

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of packing of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well ☐ gas ☒ well ☐ other

2. NAME OF OPERATOR

Caulkins Oil Company

3. ADDRESS OF OPERATOR

P.O. Box 780 Farmington, New Mexico

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1925' F/S & 720' F/W

AT TOP PROD. INTERVAL: Same

AT TOTAL DEPTH: Same

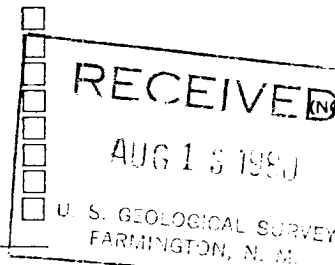
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

(other) Cement Liner

SUBSEQUENT REPORT OF:



5. LEASE

NM-03551

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Breech E

9. WELL NO.

583M

10. FIELD OR WILDCAT NAME Otero Chacra,
Blanco Mesa Verde, Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 5 26 North 6 West

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

6668 DF

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8-2-80 Cement 4 1/2" 11.6% K-55 seamless liner 7550' to 6729'
with 275 sacks Neat Cement. Plug down 12:00 noon

8-2-80

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Charles Deque TITLE Superintendent DATE 8-5-80

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

APPROVED FOR RECORD

NMOCC

AUG 21 1980

*See Instructions on Reverse Side

FARMINGTON DISTRICT
BY RW

CAULKINS OIL CO.

Post Office Box 780
Farmington, New Mexico 87401
October 13, 1980

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

Re: Downhole Commingled Production
Caulkins Oil Company
Breach E 583M ⁵
Unit L Section ⁴ 26N 6W
Rio Arriba County, New Mexico

Dear Mr. Chavez:

Following are results of tests taken on Chacra and Mesa Verde zones before commingling well.

After all zones were fractured and cleaned up, 7" Packer and Retrievable Bridge Plug were run in hole with Bridge Plug set below Mesa Verde perforations and Packer set above Mesa Verde perforations. Well was then shut in for 48 hours.

Mesa Verde Shut In Pressure	1090#
Chacra Shut In Pressure	998#

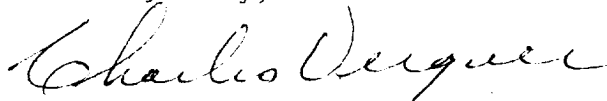
Opened Mesa Verde to atmosphere for 3 hours. Gas gauged 171 MCFPD with small show of oil.

Opened Chacra to atmosphere for 3 hours. Gas gauged 79 MCFPD with no show of oil.

From results of above tests we recommend following breakdown for future production:

Chacra zone	31% of all Gas
Mesa Verde zone	69% of all Gas and
	100% of all Oil

Yours very truly,



Charles Verquer, Superintendent
Caulkins Oil Company

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