

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-639-223245

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐			5. LEASE DESIGNATION AND SERIAL NO. NM-03551
b. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☒			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Caulkins Oil Company			7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 780, Farmington, New Mexico			8. FARM OR LEASE NAME Breech E
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 990' F/S and 903' F/E At proposed prod. zone Same			9. WELL NO. 54 E
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 30 Miles Southeast of Blanco, New Mexico			10. FIELD AND POOL, OR WILDCAT Chacra, Blanco M.V. Basin Dakota
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 990'			11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA Section 4 26N 6W
16. NO. OF ACRES IN LEASE 2240			12. COUNTY OR PARISH 13. STATE Rio Arriba New Mexico
17. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 500'			18. NO. OF ACRES ASSIGNED TO THIS WELL 320 Infill 154.97 E/319.19
19. PROPOSED DEPTH 7450'			20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6461 62			22. APPROX. DATE WORK WILL START* April 1, 1980

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15 1/4"	10 3/4"	32.75#	300'	Sufficient to circulate
8 3/4"	7"	23 & 26#	7450'	1200 sacks

Surface formation San Jose. No abnormal pressure or temperature anticipated.

It is proposed to drill well to 7450' using 9# Gel based mud. Float will be run in drill pipe at bit. ES Induction, Density and Caliper Logs will be run in open hole.

New 7" 23 & 26# J-55 Smls. casing will be cemented top to bottom with sufficient cement to circulate. Pipe will be cemented in 3 stages. Casing will have rotating scratchers over Chacra, Mesa Verde and Dakota Zones. Stage tools will be run below Point Lookout Zone and between Pictured Cliffs and Chacra Zones. Centralizers will also be run thru pay zones.

A Schaeffer 10" Model LWP, 6000# test blowout preventor will be in use at all times while drilling and cementing. Preventor will be tested each day.

(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. Vargus TITLE Superintendent DATE 1-14-80

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
'GENERAL REQUIREMENTS'

at 5m

APPROVAL DATE

APPROVED

APR 4 1980

DISTRICT ENGINEER

DATE

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 : 1963-O-711-308

Well will be completed in Chacra, Mesa Verde and Dakota Zone.

Chacra and Mesa Verde Zones will be commingled in wellbore, subject to approval by New Mexico Oil Conservation Division. Hearing scheduled January 30, 1980.

Packer will be set between Mesa Verde Zone and Dakota Zone.

New 2 3/8" OD EUE 8rd thd. tubing will be run thru packer to Dakota Zone for its production.

New 1 1/4" NU 10rd thd. to Mesa Verde Perforation for Commingled Chacra, Mesa Verde Production.

All zones shall be fractured to stimulate Production.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator CAULKINS OIL COMPANY			Lease Breech E		Well No. 54-E
Unit Letter P	Section 4	Township 26 NORTH	Range 6 WEST	County RIO ARRIBA	
Actual Footage Location of Well: 990 feet from the SOUTH line and 903 feet from the EAST line					
Ground Level Elev. 6461.0	Producing Formation Chacra-Mesa Verde-Dakota	Pool Otero Chacra Blanco Mesa Verde Basin Dakota		Dedicated Acreage: 160 Chacra 320 MV & Dak. 317.77 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 Commission.

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
1-10-80

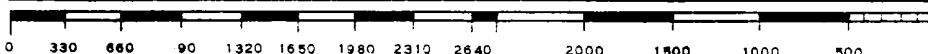
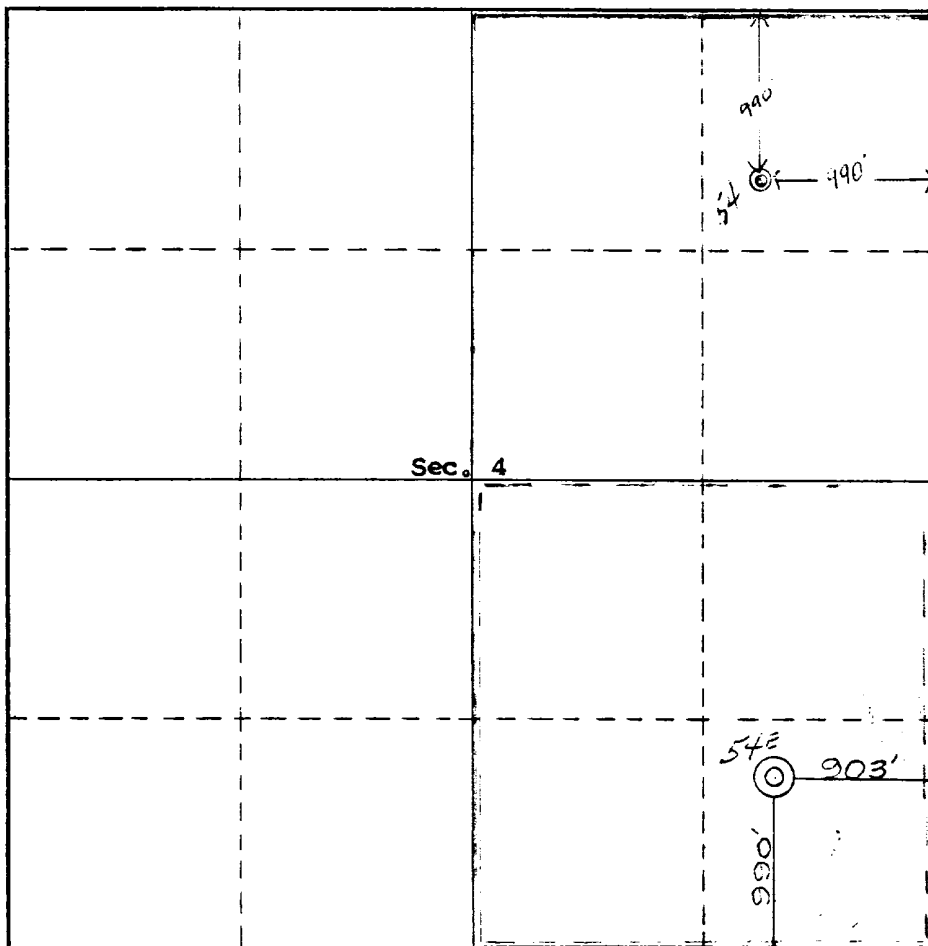
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

1-10-80
Oil & Gas Surveyors
DIST. 3
12/21/1979

Date/Surveyor
Curtis C. Stocking

Registered Professional Engineer
and/or Land Surveyor
Curtis C. Stocking

Certificate No.
5980



CAULKINS OIL CO.

Post Office Box 780
Farmington, New Mexico 87401

January 11, 1980

United States Dept. of the Interior
Geological Survey
Post Office Box 1809
Durango, Colorado 81301

Gentlemen:

Following is our multi-point development plan for surface use and restoration for our well No. 54 E, located in SE $\frac{1}{4}$ of Section 4, 26 North, 6 West, Rio Arriba County, New Mexico.

- (1) (3) Existing roads and wells in area shown on Topo Map.
- (2) No new roads required for this location.
- (4) A 400 bbl. stock tank and water, oil and gas separator will be set on location approx. 100' from well. Oil produced will be hauled as needed to pipeline delivery tank located in NW $\frac{1}{4}$ of Section 9, 26 North 6 West, Rio Arriba County, New Mexico. Gas Company of New Mexico will purchase gas and furnish all facilities downstream of oil, water and gas separator. A pit 12' X 12' X 4' will be built next to separator and tank, then firewall will be built around tank, pit and separator. Fence will be built outside of firewall. Note: Permission for unlined pit will be requested after well completed and daily water production determined.
- (5) Water will be hauled from Caulkins Oil Company water well No. 130, located in NW $\frac{1}{4}$ of Section 9, 26 North, 6 West, Rio Arriba County, New Mexico. Water well identified on topo map with red circle. Roads used to transport water also marked in red.
- (6) (8) No camp or construction materials needed for roads or location.
- (9) Layout plat for location and reserve pit attached. Location lays on 1% slope. A 2' cut on East side of location will be required to build location. Reserve pit will be built from earth materials, banks will be packed by tractor. Reserve pit will not be lined.
- (10) All disturbed area will be cleaned up then reseeded with 2 1/2# Crested Wheatgrass, 2 1/2# Sooth Brome, 1/2# Fourwing Saltbrush (dewinged) and 1# Nomad Alfalfa per acre. Reseeded area will include all location and reserve pit area to within 5' of all facilities. Seeding shall be done between July 15 and October 15. All facilities maintained by Caulkins Oil Company shall be painted Grey, number 36357.

(11) New location will be on existing road. Vegetation on area to be disturbed for roads and location is Sage Brush, and Blue Gama.

(12) Operator's representative:

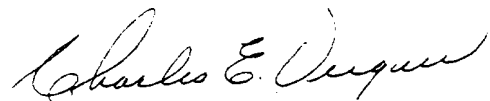
Charles E. Verquer, Supt.
Post Office Box 780
Farmington, New Mexico 87401

Phone: 325-0481

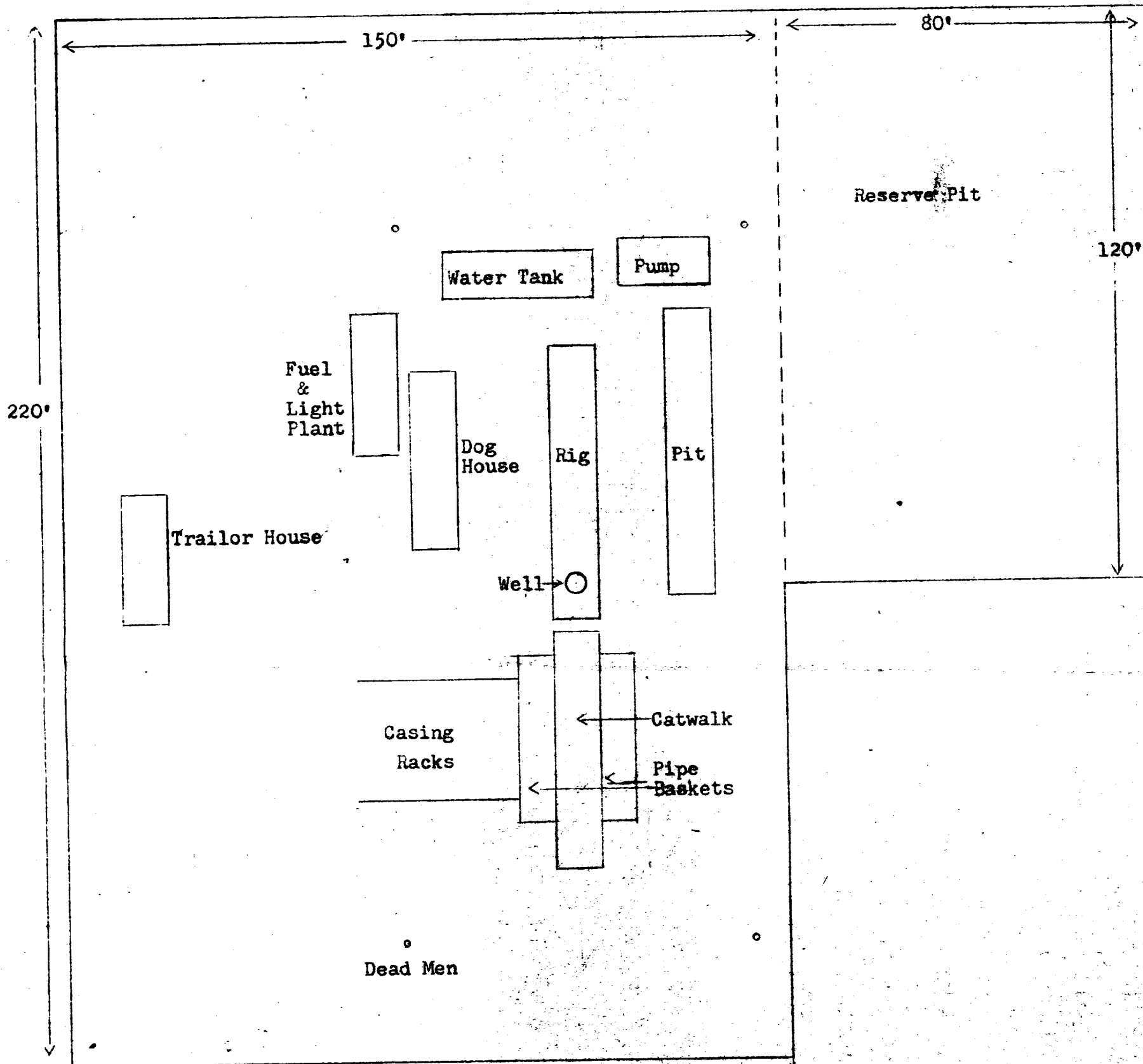
(13) Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed will be performed by CAULKINS OIL COMPANY and its contractors and subcontractors in conformity with this plan and the terms and condition under which it is approved.

January 11, 1980


Charles E. Verquer, Supt.
Caulkins Oil Company

NORTH



Scale - 1 inch = 25'

Location and Equipment Layout

Well Number 54 E

SE 1/4 Section 4, 26 North 6 West
Rio Arriba County, New Mexico

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
Continental Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 700, Farmington, New Mexico

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 990' E/2 and 990' E/2
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) Supplement to AFD

SUBSEQUENT REPORT OF:

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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:

Alamo	2180	Tecito	2240
Pictured Cliffs	2857	Greenhorn	3000
Cheera	3729	Graneros	3800
Cliff House	4632	Baheta	4700
Point Lookout	5127		

Subsurface Safety Valve: Manu. and Type _____ Ft.

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

SIGNED Charles Dwyer TITLE Superintendent DATE 12-20-73

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

5. LEASE	20-015-01
6. IF INDIAN, AS TO THE ORIGIN OF THE	CONTRIBUTED
7. UNIT AGREEMENT	NAME
8. FARM OR LEASE	NAME
9. WELL NO.	54
10. FIELD OR WELL	Blanco Mesa, Santa Fe, Chocoma, Rio Arriba, Santa Fe, New Mexico
11. SEC., T., R., S. AND BLK. AND QUARTER OR AREA	Section 4, 20N, 10E, 13S
12. COUNTY OR STATE	Rio Arriba, New Mexico
14. API NO.	
15. ELEVATIONS (SHOW DEPTH OF KDB AND WD)	6461

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

@

12-20-73

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
Bismarck Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 200, Bismarck, N.D. 58101

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

AT SURFACE: 200° 15' and 200° 15' E

AT TOP PROD. INTERVAL: same

AT TOTAL DEPTH: same

5. 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) ☐

SUBSEQUENT REPORT OF:
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6. LEASE NO. 10-0320

7. UNIT ABSTRACT NO. 10-0320

8. FARM OR LEASE NO. 10-0320

9. WELL NO. 10-0320

10. FIELD OR WELL NAME Bismarck

11. SEC. T. R. 10-0320

12. COUNTY OR STATE 10-0320

13. API NO. 10-0320

14. ELEVATION (WD) 10-0320

(NOTE: Report on well operations, and requests for approval, should be submitted to the Federal Bureau of Investigation, Bureau of Land Management, Department of the Interior, Washington, D.C. 20540. For more information, see instructions on reverse side.)

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

Estimated Formation Tops:

Point Lookout	2127	Cliff House	4432
Chalk	3729	Greenhorn	3729
Pictured Cliffs	2827	Testco	2127
Alamo	2127		

Subsurface Safety Valve: Mann and Type

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

SIGNED _____ TITLE _____ DATE _____

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See instructions on Reverse Side

Instructions

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 ☐ gas ☒ 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: 990' F/S and 903' F/E
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) ☐	☐

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.
54 E

10. FIELD OR WILDCAT NAME
Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 4, 26 North 6 West

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6461' Gr.

(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.)*

Spud at 12:00 PM 5-29-80.

Drilled 13 3/4" hole to 330'.

Ran 10 3/4" 32.75# H-40 Csg. to 330' cemented with 200 sacks 2% CaCl.
Cement circulated to surface.

Plug down 5-30-80 11:10 AM.

5-31-80 Tested surface casing with 500# for 30 Minutes. No decrease in pressure.

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

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

SIGNED Charles D. Vargus TITLE Superintendent DATE 6-2-80

(This space for Federal or State office use)

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

ACCEPTED FOR RECORD

JUN 18 1980

*See Instructions on Reverse Side

FARMINGTON
BY [Signature]

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: 990' from south, 903' from east

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* ☐

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(other)

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.

54E

10. FIELD OR WILDCAT NAME - Otero Chacra

Blanco Mesa Verde- Basin Dakota

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

Section 4, 26N 6W

12. COUNTY OR PARISH

13. STATE

Rio Arriba

New Mexico

14. API NO.

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

6461' Gr.

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

RECEIVED

JUN 25 1980

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.)

6/13/80

Drilled to TD 7410'.

Ran ES Induction Log.

Ran 7" Casing as follows:

0-1079' 7" 26# K-55 LT&C

1079'-6335' 7" 23# K-55 ST&C

6335'-7410' 7" 26# K-55 ST&C

First Stage-- Thru shoe with 375 sacks 50-50 Poz, 6% Gel and 12 1/2# Gilsonite per sack followed by 150 sacks Neat.

Second Stage-- Thru tool set at 5372' with 200 sacks

50-50 Poz, 6% Gel, 12 1/2# Gilsonite per sack followed by

Subsurface Safety Valve: Manu. and Type 100 sacks Neat. (over) Set @ Ft.

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

SIGNED Charles D. Viquez TITLE Superintendent DATE 6/18/80

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

ACCEPTED FOR RECORD

JUN 30 1980

FARMINGTON DISTRICT

BY GA

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 parting 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.

Third Stage-- Thru tool set at 3972' with 800 sacks 50-50 Poz, 6% Gel, 12 1/2# Gilsomite per sack followed by 50 sacks Neat.

Centralizers placed on pipe at following points:

7350, 7270, 7190, 7110, 7030, 6950, 6870, 5432, 5332, 3912, 3832.

Plug down at 12:20 6/14/80

Now WOC

1. Well	2. NAME OF OPERATOR
3. ADDRESS OF OPERATOR	4. LOCATION OF WELL (RECORD LOCATION CLEARLY. See space 1A below)
5. AT SURFACE: 390' from road, 900' from road	6. AT TOP PROD. INTERVAL: 390'
7. AT TOTAL DEPTH: 390'	8. CHECK APPROPRIATE BOX TO INDICATE NATURE OF WORK REPORT OR OTHER DATA
9. REQUEST FOR ABANDONMENT TO:	10. REQUEST FOR ABANDONMENT TO:
11. TEST WATER SHUT OFF	12. FRACTURE TEST
13. SHOOT OR VOICED	14. RETAIN WELL
15. PULL OR WIRE Casing	16. MULTIPLE COMPLETE
17. CHANGE ZONES	18. ABANDON

GPO : 1976 O - 214-149

6/13/80
 1079-1032 71 208 0445 4130
 0.0791 71 208 0445 4130
 1079-1032 71 208 0445 4130
 0.0791 71 208 0445 4130

First Stage-- Thru shoe with 375 sacks and 12 1/2# Gilsomite per sack followed by 50 sacks Neat.

Second Stage-- Thru shoe with 375 sacks and 12 1/2# Gilsomite per sack followed by 50 sacks Neat.

Subsequent reports of operations should include such special information as is required by local Federal and/or State offices.

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 parting 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.

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.

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.

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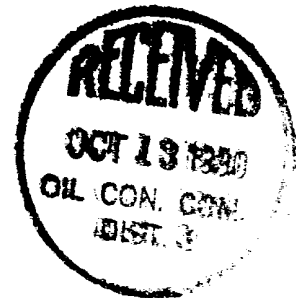
CAULKINS OIL CO.

Post Office Box 780
Farmington, New Mexico 87401

Breech "E" 54E
Section 4, 26 North 6 West
Rio Arriba County, New Mexico

Hole Deviation Test (Degrees)

330	1/4
830	1/4
1342	1/4
1841	1/2
2347	1/2
2847	1/2
3346	1/2
3845	1/2
4345	1/2
4845	1/2
5345	1/2
5843	3/4
6344	3/4
6832	1
7332	1



I, the undersigned certify that I, acting in my capacity as Superintendent for Caulkins Oil Company, am authorized to make this report; and that this report was prepared by me and that the facts stated therein are true to the best of my knowledge and belief.

Charles E. Curran
Superintendent, Caulkins Oil Company

Subscribed and sworn to before me this 12th day of October, 1980

Notary Public, My commission expires July 3, 1981

Nancy A. Chisholm
Notary Public

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 54E
Unit P 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	1010#
Chacra Shut In Pressure	991#

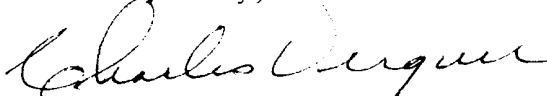
Opened Mesa Verde to atmosphere for 3 hours. Gas gauged 161 MCFPD with small show of oil.

Opened Chacra to atmosphere for 3 hours. Gas gauged 83 MCFPD with no show of oil.

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

Chacra zone	34% of all Gas
Mesa Verde zone	66% of all Gas and
	100% of all Oil

Yours very truly,


Charles Verquer, Superintendent
Caulkins Oil Company

A3~

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-30-80			
Company Caulkins Oil Company				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 10-23-80		Total Depth 7410		Plug Back TD 7410		Elevation 6461		Farm or Lease Name Breech E	
Coq. Size 7"	Wt. 23# 26#	d 6.276	Set At 7410	Perforations: From 7136 To 7362		Well No. 54E			
Tbg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 7285	Perforations: From 7285 To		Unit Sec. Twp. Rge. P 4 26N 6W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Multiple						Packer Set At 5342		County Rio Arriba	
Producing thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Tape	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							1011		PKR		7 Days
1.	3/4" Choke						83		PKR		3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Mcf/bbl.
1	14.1605		95	1.000	1.000	1.000	345
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	P.S.I.A.	Critical Temperature	R
1												
2.												
3.												
4.												
5.												

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1	9,025	237	56,199	990,330	1.057	1.0423
2.						
3.						
4.						
5.						

Absolute Open Flow				Angle of Slope		Slope, n	
1,402				75			

Remarks:

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-30-80			
Company Caulkins Oil Company				Connection					
Pool Otero Chacra Blanco Mesa Verde				Formation				Unit	
Completion Date 10-23-80		Total Depth 7410		Plug Back TD 7410		Elevation 6461		Farm or Lease Name Breach E	
Coq. Size 7"	Wt. 23# 26#	d 6.276	Set At 7410	Perforations From 3890 To 5276		Well No. 54E			
Tbg. Size 1 1/4"	Wt. 2.3#	d 1.380	Set At 5301	Perforations From 5301 To		Unit Sec. Twp. Rge. P 4 26N 6W			
Type Well - Single - Dradhead - G.G. or G.O. Multiple Gas - Gas Multiple						Prober Set At 5342		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							975		975		7 Days
1.	3/4" Choke						67		531		3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	14,1605		79	1.000	1.000	1.000	1,118
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1							XXXXXX	XXXXXX		
2.										
3.										
4.										
5.										

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1	987	543	294,849	679,320	1.434	1.310
2.						
3.						
4.						
5.						

Absolute Open Flow 1,465 Mcfd @ 15.025				Angle of Slope 75		Slope, n	
Remarks:							