

BURLINGTON RESOURCES

SAN JUAN DIVISION

Federal Express – September 26, 2000

Mr. Michael Stogner
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: Johnston A Com C #9A
1470'FNL, 1745'FWL, Section 36, T-27-N, R-6-W, Rio Arriba County
30-039-25979

Dear Mr. Stogner:

This is a request for administrative approval for a non-standard gas well location in the South Blanco Tocito Pool.

This well was drilled and completed in 1999 as a Blanco Mesaverde/WC27N6W36F Gallup/Basin Dakota at a standard location for all three pools. In discussion with Mr. Steve Hayden of your Aztec District office, this well has now been assigned to the South Blanco Tocito oil pool due to the gas-oil ratio and is therefore non-standard for the Tocito per Order R-1191.

Production from the Tocito is included in an 80 acre gas spacing unit comprising the south half (S/2) of the northwest quarter (NW/4) of Section 36.

Production from the Mesaverde is included in a 320 acre gas spacing and proration unit for the west half (W/2) in Section 36 and is to be dedicated to the Johnston A Com C #9 (30-039-06801) located at 1500'FSL, 850'FWL in Section 36.

Production from the Dakota is included in a 320 acre gas spacing unit and proration unit for the west half (W/2) of Section 36 and is to be dedicated to the Johnston A Com E #12 located at 800'FSL, 890'FWL (30-039-06767) in Section 36. Production of the Mesaverde/Gallup/Dakota was originally commingled under Order DHC-2136A. Burlington Resources is requesting an amendment to DHC-2136A to include the South Blanco Tocito.

To comply with the New Mexico Oil Conservation Division rules, we are submitting the following for your approval of this non-standard location:

- APD for the well approved as a Mesaverde/Dakota
- Approved Notice of Intent to add the WC27N6W36F Gallup;
- C102 well location plat
- Copy of Well Completion Log for the completions;
- Geologic explanation of the location and maps;
- Nine Section plat showing offset operators/owners

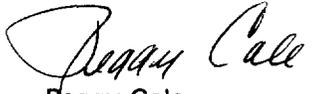
Johnston A Com C #9A
Application for Non-standard Location
Page Two

Also attached is an isopach map of the Tocito sandstone.

A copy of this application is being submitted to all offset owners/operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection, and return one copy to this office.

Please let me know if you have any questions concerning this application.

Sincerely yours,


Peggy Cole
Regulatory Supervisor

WAIVER

_____ hereby waives objection to Burlington Resource's application for non-standard location for the Johnston A Com C #9A as proposed above.

By: _____ Date: _____

xc: New Mexico Oil Conservation Division – Aztec
Bureau of Land Management – Farmington

District I
 PO Box 1980, Hobbs, NM 88241-1980
 District II
 811 South First, Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
 2040 South Pacheco
 Santa Fe, NM 87505

Form C-101
 Revised October 18, 1994
 Instructions on back
 Submit to Appropriate District Office
 State Lease - 6 Copies
 Fee Lease - 5 Copies

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address. Burlington Resources Oil & Gas Company PO Box 4289, Farmington, NM 87499		OGRID Number 14538
Property Code 7204		Property Name Johnston A Com C
API Number 30 - 039 - 25979		Well No. 9A

RECEIVED
 OCT 13 1998

OIL CON. DIV.
 DIST. 2

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	36	27N	6W		1470	North	1745	West	Rio Arriba

Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Proposed Pool 1 Basin Dakota 71599					Proposed Pool 2 Blanco Mesaverde 72319				

Work Type Code N	Well Type Code M	Cable/Rotary Rotary	Lease Type Code S	Ground Level Elevation GR
Multiple Y	Proposed Depth 7725'	Formation Mesaverde/Dakota	Contractor N/a	Spud Date N/a

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	9 5/8"	32.3#	200'	188 cu ft	Surface
8 3/4"	7"	20#	3477'	1045 cu ft	Surface
6 1/4"	4 1/2"	10.5#	7725'	669 cu ft	TOC @ 3377'

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

11" 2000 psi minimum double gate BOP

Note: to facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" and 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.

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

Signature: *Peggy Bradfield*
 Printed name: Peggy Bradfield
 Title: Regulatory/Compliance Administrator
 Date: 10-9-98 Phone: 505-326-9700

OIL CONSERVATION DIVISION

Approved by: *Ernie Bush*
 Title: DEPUTY OIL & GAS INSPECTOR, DIST. #3
 Approval Date: OCT 13 1998 Expiration Date: OCT 13 1999
 Conditions of Approval :
 Attached

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator BURLINGTON RESOURCES OIL & GAS COMPANY</p> <hr/> <p>3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M 1470' FNL, 1745' FWL, Sec.36, T-27-N, R-6-W, NMPM, Rio Arriba County</p>	<p>API # (assigned by OCD) 30-039-25979</p> <p>5. Lease Number</p> <p>6. State Oil&Gas Lease # E-290-6</p> <p>7. Lease Name/Unit Name Johnston A Com C</p> <p>8. Well No. 9A</p> <p>9. Pool Name or Wildcat Blanco MV/ <i>DHC 2136/6 F</i> Basin Dakota</p> <p>10. Elevation:</p>
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Type of Submission	Type of Action
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other -
	<input checked="" type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Conversion to Injection

13. **Describe Proposed or Completed Operations**

It is intended to add the Gallup formation to the completion of the subject well. Attached is a new C-102 plat. The well will ~~be~~ *comingled* under DHC-2136.

RECEIVED
OCT 22 1999

OIL CON. DIV.
DIST. 3

SIGNATURE *Ernie Busch* Regulatory Administrator October 21, 1999

no _____
(This space for State Use)

Approved by ORIGINAL SIGNED BY ERNIE BUSCH Title DEPUTY OIL & GAS INSPECTOR, DIST. 3 Date OCT 25 1999

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer 00, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-
Revised February 21, 1998
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Cop
Fee Lease - 3 Cop

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-		Pool Code 72319/71599/6460	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7204	Property Name JOHNSTON A COM C		Well Number 9A
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6544'

10 Surface Location

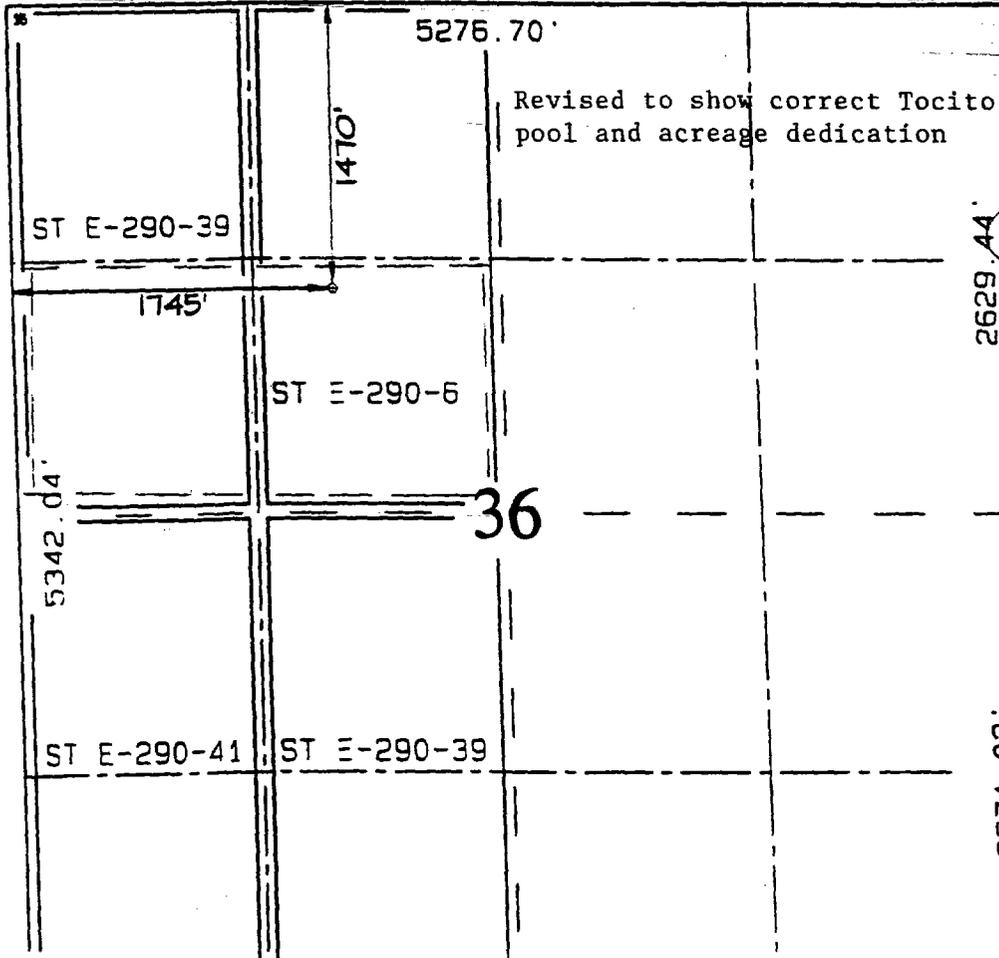
U. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	36	27N	6W		1470	NORTH	1745	WEST	RIO ARRIE

11 Bottom Hole Location If Different From Surface

U. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Designated Acreage MV-W/320; Gal-80 DK-W/320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

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

Peggy Cole
Signature
Peggy Cole
Printed Name
Regulatory Administrator
Title
9-25-00
Date

18 SURVEYOR CERTIFICATION

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

SEPTEMBER 3, 1998
Date of Survey

Signature and Seal of Professional Surveyor
NEALE C. EDWARDS
NEW MEXICO
1987

2629.44'
2671.02'

Submit to Appropriate

District Office

State Lease - 6 copies

Fee Lease - 5 copies

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico

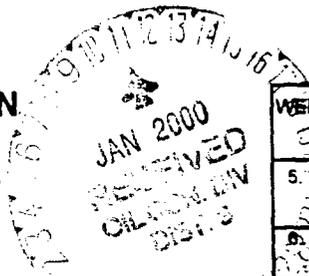
Energy, Minerals - Natural Resources Department

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION

P. O. Box 2089

Santa Fe, New Mexico 87504-2088



WELL API NO.	30-039-25979
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	E-290-6

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <u>DHC-2136</u>	7. Lease Name or Unit Agreement Name <u>Johnston A Com C</u>
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER <input type="checkbox"/>	8. Well No. <u>9A</u>
2. Name of Operator <u>BURLINGTON RESOURCES OIL & GAS COMPANY</u>	9. Pool name or Wildcat <u>Blanco MV/Largo Gal/Basin DK</u>
3. Address of Operator <u>PO BOX 4289, Farmington, NM 87499</u>	

4. Well Location
Unit Letter F : 1470 Feet From The North Line and 1745 Feet From The West Line

Section 36 Township 27N Range 6W NMPM Rio Arriba County

10. Date Spudded <u>5-21-99</u>	11. Date T.D. Reached <u>5-28-99</u>	12. Date Compl. (Ready to Prod.) <u>1-7-00</u>	13. Elevations (DF&RKB, RT, GR, etc.) <u>6644 GR</u>	14. Elev. Casinghead
15. Total Depth <u>7725</u>	16. Plug Back T.D. <u>7721</u>	17. If Multiple Compl. How Many Zones? <u>3</u>	18. Intervals Drilled By <u>Rotary Tools</u>	18. Intervals Drilled By <u>Cable Tools</u>
19. Producing interval(s), of this completion - Top, Bottom, Name <u>7468-7684 Dakota</u> <u>Commingled w/Mesaverde & Gallup</u>			20. Was Directional Survey Made	
21. Type Electric and Other Logs Run <u>CBL-CCL-GR</u>			22. Was Well Cored <u>No</u>	

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8	32.3#	245	12 1/4	218 cu.ft.	
7	23#	3469	8 3/4	1320 cu.ft.	
4 1/2	10.5#	7724	6 1/4	677 cu.ft.	

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8	7641	

26. Perforation record (interval, size, and number) <u>7468-7476', 7498-7516', 7552-7560', 7640-7648', 7676-7684</u>	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	<u>7468-7684</u>	<u>560 bbl 50 Qual foam, 47,000# 20/40 tempered LC sd</u>

28. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump) <u>Flowing</u>	Well Status (Prod. or Shut-in) <u>SI</u>
Date of Test <u>1-7-00</u>	Hours Tested <u>1</u>	Choke Size <u>SI 1001</u>
Flow Tubing Press. <u>SI 1041</u>	Casing Pressure <u>SI 1001</u>	Calculated 24-Hour Rate <u>SI 1001</u>
Oil - Bbl	Gas - MCF <u>1695 MCF/D Pitot Gauge</u>	Water - Bbl
Oil - Bbl	Gas - MCF <u>1695 MCF/D</u>	Water - Bbl

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
To be sold

Test Witnessed By

30. List Attachments
None

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Peggy Bradfield Printed Name Peggy Bradfield Title Regulatory Administrator Date 1-10-00

Submit to Appropriate
 District Office
 State Lease - 6 copies
 Fee Lease - 5 copies

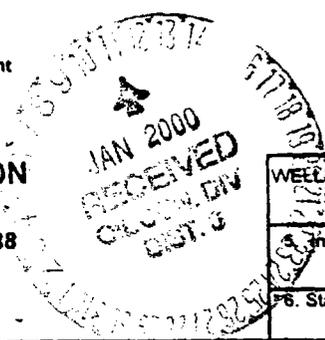
State of New Mexico
 Energy, Mineral and Natural Resources Department

Form C-105
 Revised 1-1-89

DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
 P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION
 P. O. Box 2089
 Santa Fe, New Mexico 87504-2088



WELL/API NO. 30-039-25979

Indicate Type of Lease
 STATE FEE

State Oil & Gas Lease No. E-290-6

DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:
 OIL WELL GAS WELL DRY OTHER DHC-2136

b. TYPE OF COMPLETION:
 NEW WELL WORK OVER DEEPEN PLUG BACK DIFF RESVR OTHER _____

7. Lease Name or Unit Agreement Name
Johnston A Com C

2. Name of Operator
BURLINGTON RESOURCES OIL & GAS COMPANY

8. Well No.
9A

3. Address of Operator
PO BOX 4289, Farmington, NM 87499

9. Pool name or Wildcat
Blanco MV/Largo Gal/Basin DK

4. Well Location
 Unit Letter F : 1470 Feet From The North Line and 1745 Feet From The West Line

Section 36 Township 27N Range 6W NMPM Rio Arriba County

10. Date Spudded 5-21-99 11. Date T.D. Reached 5-28-99 12. Date Compl. (Ready to Prod.) 1-7-00 13. Elevations (DF&RKB, RT, GR, etc.) 6644 GR 14. Elev. Casinghead

15. Total Depth 7725 16. Plug Back T.D. 7721 17. If Multiple Compl. How Many Zones? 3 18. Intervals Drilled By 0-7725 Rotary Tools Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name
6698-6708 Gallup Commingled w/Mesaverde & Dakota

20. Was Directional Survey Made

21. Type Electric and Other Logs Run
CBL-CCL-GR

22. Was Well Cored
No

23. **CASING RECORD (Report all strings set in well)**

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8	32.3#	245	12 1/4	218 cu.ft.	
7	23#	3469	8 3/4	1320 cu.ft.	
4 1/2	10.5#	7724	6 1/4	677 cu.ft.	

24. **LINER RECORD** 25. **TUBING RECORD**

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8	7641	

26. Perforation record (interval, size, and number)
6698-6708'

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
<u>6698-6708</u>	<u>325 bbl 20# linear gel, 20,000# 20/40 Brady sd</u>

28. **PRODUCTION**

Date First Production _____ Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) SI

Date of Test 1-7-00 Hours Tested 1 Choke Size _____ Prod'n for Test Period _____ Oil - Bbl. _____ Gas - MCF 23 MCF/D Pitot Gauge Water - Bbl. _____ Gas - Oil Ratio _____

Flow Tubing Press. SI 1041 Casing Pressure SI 1001 Calculated 24-Hour Rate _____ Oil - Bbl. _____ Gas - MCF 23 MCF/D Water - Bbl. _____ Oil Gravity - API - (Corr.) _____

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
To be sold Test Witnessed By _____

30. List Attachments
None

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature [Signature] Printed Name Peggy Bradfield Title Regulatory Administrator Date 1-10-00

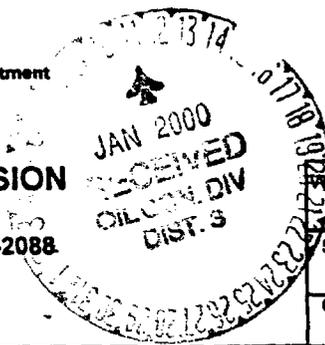
Submit to Appropriate
 District Office
 State Lease - 6 copies
 Fee Lease - 5 copies

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-105
 Revised 1-1-89

DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240
 DISTRICT II
 P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION
 P. O. Box 2089
 Santa Fe, New Mexico 87504-2088



DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
 30-039-25979
 5. Indicate Type of Lease
 STATE FEE
 6. State Oil & Gas Lease No.
 E-290-6
 7. Lease Name or Unit Agreement Name
 Johnston A Com C
 8. Well No.
 9A
 9. Pool name or Wildcat
 Blanco MV/WC:27N6W36F Gal/Basin DK

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:
 OIL WELL GAS WELL DRY OTHER DHC-2136
 b. TYPE OF COMPLETION:
 NEW WELL WORK OVER DEEPEN PLUG BACK DIFF RESVR OTHER
 2. Name of Operator
 BURLINGTON RESOURCES OIL & GAS COMPANY
 3. Address of Operator
 PO BOX 4289, Farmington, NM 87499
 4. Well Location
 Unit Letter F : 1470 Feet From The North Line and 1745 Feet From The West Line
 Section 36 Township 27N Range 6W NMPM Rio Arriba County

10. Date Spudded 5-21-99 11. Date T.D. Reached 5-28-99 12. Date Compl. (Ready to Prod.) 1-7-00 13. Elevations (DF&RKB, RT, GR, etc.) 6644 GR 14. Elev. Casinghead
 15. Total Depth 7725 16. Plug Back T.D. 7721 17. If Multiple Compl. How Many Zones? 3 18. Intervals Drilled By 0-7725 Rotary Tools Cable Tools
 19. Producing Interval(s), of this completion - Top, Bottom, Name 4822-5867 Mesaverde Commingled w/Gallup & Dakota 20. Was Directional Survey Made
 21. Type Electric and Other Logs Run CBL-CCL-GR 22. Was Well Cored No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8	32.3#	245	12 1/4	218 cu.ft.	
7	23#	3469	8 3/4	1320 cu.ft.	
4 1/2	10.5#	7724	6 1/4	677 cu.ft.	

24. LINER RECORD 25. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8	7641	

26. Perforation record (interval, size, and number)
 4822, 4826, 4839, 4847, 4863, 4871, 4884, 4898, 4908, 4930, 4947, 4962, 4979, 4994, 5012, 5018, 5026, 5040, 5074, 5093, 5099, 5125, 5139, 5145, 5174, 5260, 5286, 5304, 5334, 5358, 5373, 5402, 5426, 5448, 5465, 5490, 5518, 5531, 5557, 5589, 5606, 5634, 5642, 5663.
 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4822-5174	12,500 gal silk wtr, 100,000# 20/40 Brady sd
5260-5867	12,500 gal silk wtr, 100,000# 20/40 Brady sd

 Perforations cont'd on back

28. PRODUCTION
 Date First Production _____ Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) SI
 Date of Test 1-7-00 Hours Tested 1 Choke Size _____ Prod'n for Test Period _____ Oil - Bbl. _____ Gas - MCF 145 MCF/D Pitot Gauge Water - Bbl. _____ Gas - Oil Ratio _____
 Flow Tubing Press. SI 1041 Casing Pressure SI 1001 Calculated 24-Hour Rate _____ Oil - Bbl. _____ Gas - MCF 145 MCF/D Water - Bbl. _____ Oil Gravity - API - (Corr.) _____
 29. Disposition of Gas (Sold, used for fuel, vented, etc.) To be sold Test Witnessed By _____

30. List Attachments
None
 31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief
 Signature [Signature] Printed Name Peggy Bradfield Title Regulatory Administrator Date 1-7-00

Johnston A Com C Well Number 9A
1470' FNL & 1745' FWL
Section 36, T27N, R6W
San Juan County, New Mexico
Blanco Mesaverde/South Blanco-Tocito/Basin Dakota Pool

The Johnston A Com C 9A was completed in December 1999 as a producer from three commingled horizons, the Mesaverde, Tocito and Dakota. Current production rates are approximately 430 MCFD from the Dakota, 5 MCFD from the Tocito and 40 MCFD from the Mesaverde. Each zone is also contributing approximately 1 BOPD.

The Mesaverde spacing unit for the Johnston A Com C 9A is the W/2 of Section 36-T27N-R6W. The well is located at a standard Mesaverde location within the spacing unit. The Johnston A Com C 9A is the second Mesaverde well completed in the 320-acre spacing unit. The location of the well was originally selected to optimize recovery from the Mesaverde Group. The primary control on productivity in the Mesaverde is the density of natural fractures. Fracture orientation ranges from due north to north 30 degrees east. Gas drainage areas are elliptical in shape with the long axis parallel to the direction of fracture orientation. A drainage ellipse map of the project vicinity indicates that undeveloped gas reserves remain to be exploited by the 9A in the NW/4 of Section 36-T27N-R6W. The drainage ellipse map is based upon data derived from a larger study of the entire Blanco Mesaverde Pool (estimated ultimate recovery calculated for all wells in the Blanco Mesaverde Pool, original gas in place values calculated for entire Blanco Mesaverde Pool, etc.).

The Dakota spacing unit for the Johnston A Com C 9A is the W/2 of Section 36-T27N-R6W. The well is located at a standard Dakota location within the spacing unit. The Johnston A Com C 9A is the second Dakota well completed in the 320-acre spacing unit. Exact placement of the well within the undrilled 160 acre tract in the NW/4 of the section was not viewed as critical to success of the new drill project in the Dakota.

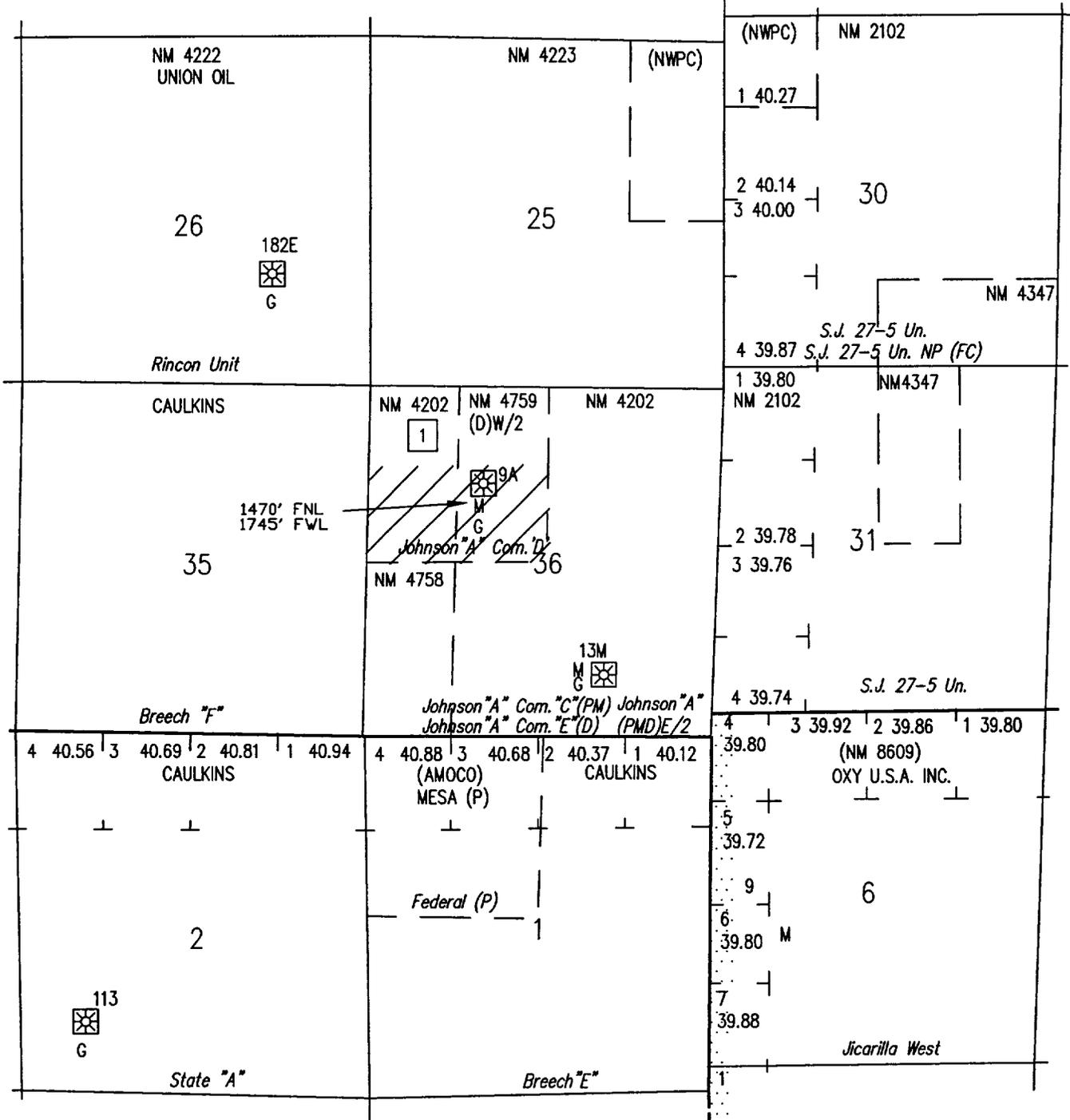
The Johnston A Com C 9A was permitted and drilled as a wildcat Tocito test. There was no Tocito production from Section 36-T27N-R6W at the time the Johnston A Com C 9A was drilled. Exact placement of the test within the NW/4 of the section was not viewed as critical to success of the new drill project in the Tocito. Upon successful completion in the Tocito, the NMOCD incorporated the Johnston A Com C 9A in the South Blanco-Tocito Oil Pool located just to the south and west. The Tocito reservoir developed at the well appears to be the stratigraphic equivalent of that developed at South Blanco-Tocito Pool. Current production from the Tocito at the Johnston A Com C 9A is approximately 5 MCFD with 1 BOPD. Under NMOCD definition, the Johnston A Com C 9A is an oil well (based on the gas oil ratio). Rule 3 of the Special Rules and Regulations for the South Blanco-Tocito Pool states that all wells "shall be located in the center of the Northwest quarter or the Southeast quarter of a governmental quarter section with a tolerance of 100 feet in any direction to avoid surface obstructions." The location of the Johnston A Com C 9A does not meet these criteria and the well is now a non-standard location in the South Blanco-Tocito Pool. The Tocito pay section penetrated by the

Johnston A Com C 9A is interpreted as geologically comparable, or even favorable, to that expected at any other test drilled at a standard Tocito location in the NW/4 of Section 36-T27N-R6W, as defined by the Special Rules and Regulations of the South Blanco-Tocito Pool.

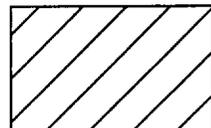
BURLINGTON RESOURCES OIL AND GAS COMPANY

Johnston A Com C #9A
 Section 36, T-27-N, R-6-W
 OFFSET OPERATOR/OWNER PLAT

Nonstandard Location
 Tocito Formation Well



1 Burlington Resources - Working Interest Owner
 Working Interest Owners -
 See Attached List



Proposed Well

Johnston A Com C #9A -
Working Interest Owners

Claudia Marcia Lundell Gilmer
Attention: Capital JIB
30 Golden Place
Woodlands, Texas 77381

Linda Jeanne Lundell Lindsey
PO Box 631565
Nacogdoches, Texas 75963-1565

Carolyn Beamo Tilley
5225 Preston Haven
Dallas, Texas 75229

Robert Walter Lundell
2450 Fondren #304
Houston, Texas 77063

James Robert Beamon
2603 Augusta, Suite 1050
Houston, Texas 77057

Susan Beamon Porter
319 Knipp Forest
Houston, Texas 77024

Sharon B. Burns
401 Headlands Avenue
Mill Valley, California 94941

Cathryn Beamon
Attention: Capital JIB
1200 South Dairy Ashford #1413
Houston, Texas 77057

Robert Beamon
2603 Augusta, Suite 1050
Houston, Texas 77057

Re: Johnston A Com C #9A
1470'FNL, 1745'FWL, Section 36, T-27-N, R-6-W, Rio Arriba County
30-039-25979

I hereby certify that the following offset owners/operators have been notified by certified mail of our application for administrative approval for non-standard well location of the above well.

Claudia Marcia Lundell Gilmer
30 Golden Place
Woodlands, TX 77381

Linda Jeanne Lundell Lindsey
PO Box 631565
Nagadoches, TX 75963

Carolyn Beamo Tilley
5225 Preston Haven
Dallas, TX 75229

Robert Walter Lundell
2450 Fondren #304
Houston, TX 77063

James R. Beamon
2603 Augusta, Suite 1050
Houston, TX 77057

Susan Beamon Porter
319 Knipp Forest
Houston, TX 77024

Sharon B. Burns
401 Headlands Avenue
Mill Valley, CA 94941

Cathryn Beamon
1200 S. Dairy Ashford #1413
Houston, TX 77057

Robert Beamon
2603 Augusta, Suite 1050
Houston, TX 77057



Peggy Cole
Regulatory Supervisor

D 40.00 CS E00290 0039 EL PASO PRODUCTIO C 05/02/55	C 40.00 CS E00290 0044 VASTAR RESOURCES C 05/02/55	B 40.00 CS E00290 0039 EL PASO PRODUCTIO A 05/02/55	A 40.00 CS E00290 0039 EL PASO PRODUCTIC A 05/02/55
E 40.00 CS E00290 0039 EL PASO PRODUCTIO C 05/02/55	F 40.00 CS E00290 0044 VASTAR RESOURCES C 05/02/55 A	G 40.00 CS E00290 0039 EL PASO PRODUCTIO A 05/02/55	H 40.00 CS E00290 0039 EL PASO PRODUCTIC 05/02/55

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06
 PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

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40.00 CS E00290 0041 EL PASO PRODUCTIO C 05/02/55 A	40.00 CS E00290 0039 EL PASO PRODUCTIO C 05/02/55	40.00 CS E00290 0039 EL PASO PRODUCTIO 05/02/55	40.00 CS E00290 0039 EL PASO PRODUCTIO 05/02/55 A
M	N	O	P
40.00 CS E00290 0041 EL PASO PRODUCTIO C 05/02/55 A	40.00 CS E00290 0039 EL PASO PRODUCTIO C 05/02/55	40.00 CS E00290 0039 EL PASO PRODUCTIO 05/02/55 A	40.00 CS E00290 0039 EL PASO PRODUCTIO 05/02/55

PF01 HELP PF02 FWD PF03 EXIT PF04 GOTO PF05 PF06
 PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF THE STATE OF NEW
MEXICO FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 1420
Order No. R-1191

APPLICATION OF CAULKINS OIL COMPANY
TO AMEND THE SPECIAL POOL RULES FOR
THE SOUTH BLANCO-TOCITO OIL POOL,
RIO ARRIBA COUNTY, NEW MEXICO.

R-1191-1-
1191-1-
1191-1-

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a. m. on April 16, 1958, at Roswell, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 10th day of June, 1958, the Commission, a quorum being present, having considered the application and the evidence adduced, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Caulkins Oil Company, is the operator of a water injection project in the South Blanco-Tocito Oil Pool in Rio Arriba County, New Mexico.

(3) That the applicant proposes that the Special Rules and Regulations for the South Blanco-Tocito Oil Pool as promulgated by Order No. R-326, dated May 26, 1953, and by Commission Order No. R-1144, dated March 25, 1958, be amended to provide for a system of transferring allowables within said water injection project and to provide credit against gas-oil ratio limitations for net water injected into the reservoir.

(4) That amendment of the Special Rules and Regulations for the South Blanco-Tocito Oil Pool to provide that allowables may be transferred from injection wells to other producing wells within the water injection project will not impair correlative rights.

(5) That production from any one well within the water injection project should be limited to twice the top unit allowable or three hundred (300) barrels a day,

whichever is greater.

(6) That in order to prevent the waste of casinghead gas, a no-flare order should be entered for the South Blanco-Tocito Oil Pool, effective October 1, 1958.

(7) That the Rules and Regulations for the South Blanco-Tocito Oil Pool, as set forth in Commission Order No. R-326, dated May 26, 1953, and Commission Order No. R-1144, dated March 25, 1958, should be superseded by this order so as to consolidate all Special Rules and Regulations for the South Blanco-Tocito Oil Pool and for the South Blanco-Tocito Water Injection Project in one order.

(8) That the findings of the Commission, as recited in Commission Order R-326 and Commission Order R-1144, should be incorporated by reference in this order.

IT IS THEREFORE ORDERED:

(1) That the findings of the Commission, as recited in Commission Order R-326 and Commission Order R-1144, be and the same are hereby incorporated by reference in this order.

(2) That the Rules and Regulations for the South Blanco-Tocito Oil Pool as set forth in Commission Order R-326, dated May 26, 1953, and Commission Order R-1144, dated March 25, 1958, be and the same are hereby superseded.

(3) That Special Pool Rules for the South Blanco-Tocito Pool, Rio Arriba County, New Mexico, be and the same are hereby promulgated as follows, effective July 1, 1958:

SPECIAL RULES AND REGULATIONS
FOR THE SOUTH BLANCO-TOCITO OIL POOL

RULE 1. Any well drilled to or completed in the Tocito formation within one mile of the boundaries of the South Blanco-Tocito Oil Pool shall be spaced, drilled, operated, and prorated in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. All wells projected to or completed in the South Blanco-Tocito Oil Pool shall be located on a tract containing 80 acres, more or less, comprising the East half, West half, North half, or South half of the governmental quarter section in which the well is located. Allowables for wells located on such 80-acre tracts shall be assigned in accordance with the 80-acre proportional factor for pools in the 6,000-to 7,000-foot depth range. Wells located on tracts comprising less than 80 acres shall be assigned an allowable which shall bear the same proportion to the standard 80-acre allowable that the acreage assigned to such well bears to 80 acres.

RULE 3. All wells hereafter projected to or completed in the South Blanco-Tocito Oil Pool shall be located in the center of the Northwest quarter or the Southeast

quarter of a governmental quarter section, with a tolerance of 100 feet in any direction to avoid surface obstructions.

RULE 4. That all wells hereafter projected to or completed in the South Blanco-Tocito Oil Pool shall be cased in accordance with the following casing rules:

(a) The surface casing shall consist of new or reconditioned pipe with an original mill test of not less than 1000 pounds per square inch, and at least one string of surface casing shall be set at a depth sufficient to protect all potable water-bearing strata encountered, and not less than 450 feet below the surface of the ground. Sufficient cement shall be used to fill the annular space back of the pipe to the bottom of the cellar. Cement shall be allowed to stand a minimum of 24 hours before initiating tests. Before drilling the plug a pump pressure of at least 600 pounds per square inch shall be applied. If at the end of 30 minutes the pressure shows a drop of 100 pounds per square inch, or more, the casing shall be condemned, subject to corrective operations and further testing.

(b) The producing oil string shall consist of new or reconditioned pipe with an original mill test of not less than 2100 pounds per square inch. The producing string shall be set and cemented with sufficient cement to fill the calculated annular space behind the pipe to a minimum of 1000 feet above the guide shoe. Cement shall be allowed to stand a minimum of 72 hours before initiating tests. Before drilling the plug a pump pressure of at least 600 pounds per square inch shall be applied. If at the end of 30 minutes the pressure shows a drop of 100 pounds per square inch, or more the casing shall be condemned, subject to corrective operations and further testing.

RULE 5. Upon completion of any well in the South Blanco-Tocito Oil Pool and semi-annually, during the months of April and October, a bottom-hole pressure test shall be made and a report thereof filed with the Commission on Commission Form C-124. Bottom hole pressures shall be taken in accordance with the provisions of Rule 302 of the Commission Rules and Regulations except that wells shall remain shut-in for a minimum of 72 hours prior to testing. Tests shall be corrected to a reservoir datum plane of minus 100 (-100) feet.

RULE 6. Upon completion of any well in the South Blanco-Tocito Oil Pool and semi-annually during the months of April and October, a gas-oil ratio test shall be made and a report thereof filed with the Commission on Commission Form C-116.

RULE 7. Prior to making tests required in Rules 5 and 6 above, each operator in the South Blanco-Tocito Oil Pool shall notify all other operators in the pool, as well as the Commission, of the time such tests are to be conducted. Tests may be witnessed by representatives of the other operators and the Commission, if they so desire.

RULE 8. The limiting gas oil ratio for the South Blanco-Tocito Oil Pool shall be two thousand (2,000) cubic feet of gas for each barrel of oil produced.

RULE 9. No casinghead gas produced from any well completed in the South

Blanco-Tocito Oil Pool shall be flared or vented after October 1, 1958.

RULE 10. All wells drilled to and completed in the South Blanco-Tocito Oil Pool prior to May 26, 1953, whose locations do not conform to the well spacing requirements of Rule 3 above are excepted from the requirements of said Rule and their locations are hereby approved as unorthodox well locations. This approval shall apply to the following wells:

	<u>Well No.</u>	<u>Unit</u>	<u>Sec.</u>	<u>Twp.</u>	<u>Rge.</u>
Caulkins Oil Company	T-132	A	9	26N	6 W
" " "	T-134	C	10	26N	6W
" " "	T-157	E	10	26N	6W
" " "	T-182	K	10	26N	6W
" " "	T-207	O	10	26N	6W

RULE 11. In addition to the above Rules for the South Blanco-Tocito Oil Pool, the following Rules shall apply to the operation of all wells completed in the Tocito formation and located within the South Blanco Water Injection Project Area, hereinafter referred to as the "Project."

(a) The project Area shall comprise that area described as follows:

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM
Section 3: S/2 SW/4
Section 4: S/2
Section 8: N/2 NE/4
Section 9: N/2 and N/2 S/2
Section 10: NW/4, N/2 SW/4, and SE/4
Section 11: W/2 SW/4

(b) The allowable for the Project shall be the sum of the allowables of the several wells within the project area, including those wells which are shut-in or are used as water injection wells. Allowables for all wells shall be determined in a manner hereinafter prescribed.

(c) Allowables for water injection wells may be transferred to producing wells within the project area, as may be the allowables for producing wells which, in the interest of more efficient operation of the Project, are shut-in or are curtailed in their rate of production.

(d) The project allowable may be produced from any well or wells in the project area in any proportion, provided said rate of production is consistent with

efficient operation of the Project and provided further, that no well shall produce in excess of two times the top unit allowable for the South Blanco-Tocito Oil Pool, or 300 barrels per day, whichever is greater.

(e) The allowable assigned to any water injection well, which is to be transferred to any other well or wells in the Project area for production, shall in no event exceed the producing capacity of the well prior to conversion to water injection, as determined by the average daily rate of production during the last three months the well was produced prior to such conversion.

Conversion of producing wells to water injection, as abandonment of said producing wells is necessitated by water encroachment, shall be made only after approval of such conversion by the Secretary-Director of the Commission. To obtain such approval, the Project operator shall file proper application for conversion with the Commission, providing copies of said application to all interested parties. The Secretary Director may approve the conversion to water injection if, within 20 days after receiving the application, no objection to said conversion is received. The Secretary-Director may grant immediate approval provided waivers of objection are received from all interested parties.

(f) The allowable assigned to any well which is to be shut-in or curtailed and which is to be transferred from said well to any other well or wells in the project area shall in no event exceed the ability of the well to produce oil as determined by a 24-hour test at a stabilized rate of production, which shall be the final 24-hour period of a 72-hour test throughout which the well under test shall be produced in the same manner and at a constant rate. The project operator shall notify all other operators in the South Blanco-Tocito Oil Pool, as well as the Commission, of the time such tests are to be conducted. Tests may be witnessed by representatives of the other operators and the Commission, if they so desire.

(g) The allowable assigned to any well in the Project shall be based upon the ability of the well to produce oil and shall be subject to the limiting gas-oil ratio (2000 to 1) for the South Blanco-Tocito Oil Pool, except that credit for daily average net water injected into the Tocito formation through any injection well or wells located within the project area may be applied to any well or wells producing with a gas-oil ratio in excess of two thousand cubic feet of gas per barrel of oil. Total credit for net water injected in the project area shall be the gas equivalent volume of the daily average net water injected during a one-month period. The daily average gas equivalent of net water injected shall be computed in accordance with the following formula:

$$E_g = (V_w \text{ inj} - V_w \text{ prod}) \times 5.61 \frac{\text{ft}^3}{\text{bbl}} \times \frac{P_a}{15.025} \times \frac{520^{\circ}}{635^{\circ}} \times \frac{1}{Z}$$

where:

$$E_g = \text{Average daily gas equivalent of net water injected}$$

- $V_{w\ inj}$ = Average daily volume of water injected, barrels
- $V_{w\ prod}$ = Average daily volume of water produced, barrels
- P_a = Average reservoir pressure at datum of -100 feet, psig \pm 11.5, as determined from most recent semi-annual survey.
- 15.025 = Pressure base, psi
- 520° = Temperature base of 60°F expressed as absolute temperature
- 635° = Reservoir temperature of 175°F expressed as absolute temperature
- Z = Supercompressibility factor for 0.7 gravity gas at average reservoir pressure, P_a , interpolated from supercompressibility tabulation below:

Pressure	Z	Pressure	Z
2000	0.845	1200	0.889
1900	0.849	1100	0.897
1800	0.853	1000	0.905
1700	0.857	900	0.914
1600	0.861	800	0.923
1500	0.865	700	0.932
1400	0.873	600	0.941
1300	0.881	500	0.950

Distribution of the total calculated average daily gas equivalent volume may be made to any well or wells with gas-oil ratios in excess of two thousand to one. The daily adjusted oil allowable for any such well receiving water injection credit shall be determined as follows:

$$\text{Well's Adjusted Allowable} = \frac{(\text{Top unit allowable} \times 2000) \div \text{gas equivalent volume assigned to well}}{\text{Well's gas-oil ratio}}$$

provided however, that in no event shall the gas equivalent volume assigned to a well be such as to cause the well's adjusted allowable to exceed the top unit allowable for the pool.

(h) Each month the project operator shall, within three days after the normal unit allowable for Northwest New Mexico has been established, submit to the Commission a South Blanco-Tocito Water Injection Project Operator's Report, on a form prescribed by the Commission, outlining thereon the data required, and requesting allowables for each of the several wells in the Project.

(i) The Commission shall, upon review of the report and after any adjustments deemed necessary, assign allowables to each well in the Project for the next succeeding month in accordance with these rules.

(j) The Special Rules and Regulations for the operation of wells in the project area shall prevail as against the Special Rules and Regulations for the South Blanco-Tocito Oil Pool, if in conflict therewith.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

MURRAY E. MORGAN, Member

A. L. PORTER, Jr., Member and Secretary

S E A L

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 1420
Order No. R-1191-A

APPLICATION OF CAULKINS OIL
COMPANY AND EL PASO NATURAL GAS
PRODUCTS COMPANY FOR AN ORDER
AMENDING IN CERTAIN PARTICULARS
THE SPECIAL RULES GOVERNING THE
SOUTH BLANCO-TOCITO WATER
INJECTION PROJECT IN RIO ARRIBA
COUNTY, NEW MEXICO, AS SET FORTH
IN ORDER R-1191; FOR PERMISSION TO
CONVERT TWO WELLS IN SAID PROJECT
TO WATER INJECTION; FOR PERMISSION
TO DUALY COMPLETE A WELL IN SAID
PROJECT AS A PRODUCING-INJECTION
WELL AND FOR APPROVAL OF AN
UNORTHODOX LOCATION FOR SAID WELL

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on April 8, 1959, at Santa Fe, New Mexico, before E. J. Fischer, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 21st day of May, 1959, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, E. J. Fischer, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That Rule 11 of Order No. R-1191 established Special Rules and Regulations governing the operation of the South Blanco-Tocito Water Injection Project in the South Blanco-Tocito Oil Pool in Rio Arriba County, New Mexico, and described the acreage encompassed in said South Blanco-Tocito Water Injection Project, hereinafter referred to as the "Project,"

-2-

Case No. 1420
Order No. R-1191-A

(3) That the applicants, operators in said Project, seek an amendment of Order No. R-1191 to provide for the inclusion of the following-described acreage in the Project:

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM

Section 6: All
Section 7: NE/4
Section 8: S/2 NE/4; NW/4

Rio Arriba County, New Mexico.

(4) That the applicants propose that Order No. R-1191 be amended to establish an administrative procedure whereby the Project area may be extended and new wells included in the Project without notice and hearing.

(5) That the applicants also seek authorization to convert the following-described wells to water injection:

El Paso Rincon Unit Well No. 11, located in the
SE/4 SW/4 of Section 6,

Caulkins Well No. T-123, located in the NW/4
NE/4 of Section 7,

both in Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

(6) That applicants further seek permission to deepen the said Caulkins Well No. T-123, and to dually complete it in such a manner as to permit water injection into the Tocito formation through the casing-tubing annulus and gas production from the Dakota formation through tubing.

(7) That the location of the said Caulkins Well No. T-123 at a point 700 feet from the North line and 1800 feet from the East line of said Section 7 is unorthodox for a gas well in the Dakota Producing Interval and applicants seek approval for said unorthodox location.

(8) That permission should be granted for the conversion of the aforesaid El Paso Rincon Unit Well No. 11 to water injection.

(9) That in order to ensure the Dakota reservoir is not damaged, permission to dually complete the aforesaid Caulkins Well No. T-123 in such a manner as to permit the injection of water into the Tocito formation through the casing-tubing annulus and the production of gas from the Dakota formation through the tubing should be denied.

(10) That permission should be granted, at the operator's option, to either dually complete the said Caulkins Well No. T-123 in such a manner as to permit the production of oil from the Tocito formation and the production of gas from the Dakota formation through parallel strings of tubing, or to utilize said well as a water injection well in the Tocito formation without deepening it to produce from the Dakota formation.

(11) That the unorthodox gas well location of the said Caulkins Well No. T-123 should be approved inasmuch as the operator may choose to dually complete said well in such a manner as to permit the production of oil from the Tocito formation and the production of gas from the Dakota formation.

(12) That the inclusion of the additional acreage in the water injection project, as described in Finding No. 3, and the establishment of an administrative system for future expansion, as described in Finding No. 4, should be provided by an amendment to Rule 11(a) of the South Blanco-Tocito Water Injection Project Area Rules, as set forth in Order No. R-1191.

IT IS THEREFORE ORDERED:

(1) That the applicants be and the same are hereby authorized to convert the El Paso Rincon Unit Well No. 11, located in the SE/4 SW/4 of Section 6, Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, to water injection.

(2) That permission to deepen the Caulkins Well No. T-123, located 700 feet from the North line and 1800 feet from the East line of Section 7, Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, in such a manner as to permit the injection of water into the Tocito formation through the casing-tubing annulus and the production of gas from the Dakota formation through tubing be and the same is hereby denied,

(3) That the operator be and the same is hereby authorized to either utilize said Caulkins Well No. T-123 as a water injection well in the Tocito formation without deepening it so as to produce from the Dakota formation or to dually complete said well in such a manner as to permit the production of oil from the Tocito formation and the production of gas from the Dakota formation through parallel strings of tubing.

(4) That an unorthodox gas well location for said Caulkins Well No. T-123 in the Dakota formation be and the same is hereby approved.

IT IS FURTHER ORDERED:

That Rule 11(a) of the South Blanco-Tocito Water Injection Project Rules as set forth in Order No. R-1191, be and the same is hereby amended to read in its entirety as follows:

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Case No. 1420
Order No. R-1191-A

(a)-1. The project Area shall comprise that area described as follows:

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM

Section 3: S/2 SW/4
Section 4: S/2
Section 6: All
Section 7: NE/4
Section 8: N/2
Section 9: N/2 and N/2 S/2
Section 10: NW/4, N/2 SW/4, and SE/4
Section 11: W/2 SW/4

(a)-2. Expansion of the project area to include additional acreage may be approved administratively by the Secretary-Director of the Commission for good cause shown. To obtain such approval, the project operator shall file proper application with the Commission, furnishing copies of said application to all interested parties. "Interested parties" are defined as being working interest owners and royalty owners within the project area and immediately offsetting it. The Secretary-Director may approve the expansion of the project area if, within 20 days after receiving the application, no objection is received from any interested party. The Secretary-Director may grant immediate approval provided waivers of objection are received from all interested parties.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

JOHN BURROUGHS, Chairman

MURRAY E. MORGAN, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

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BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 1420
Order No. R-1191-B

APPLICATION OF CAULKINS OIL
COMPANY AND EL PASO NATURAL GAS
PRODUCTS COMPANY FOR AN ORDER
AMENDING IN CERTAIN PARTICULARS
THE SPECIAL RULES GOVERNING THE
SOUTH BLANCO-TOCITO WATER
INJECTION PROJECT IN RIO ARRIBA
COUNTY, NEW MEXICO, AS SET FORTH
IN ORDER R-1191, FOR PERMISSION
TO CONVERT TWO WELLS IN SAID
PROJECT TO WATER INJECTION, FOR
PERMISSION TO DUALY COMPLETE A
WELL IN SAID PROJECT AS A
PRODUCING-INJECTION WELL AND
FOR APPROVAL OF AN UNORTHODOX LOCA-
TION FOR SAID WELL

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on April 8, 1959, at Santa Fe, New Mexico, before E. J. Fischer, Examiner duly appointed by the New Mexico Oil Conservation Commission in accordance with Rule 1214 of the Commission Rules and Regulations, and Order No. R-1191-A was entered denying the application in one respect, whereupon this case came on for hearing de novo at 9 o'clock a.m. on July 15, 1959.

NOW, on this 3rd day of August, 1959, the Commission, a quorum being present, having considered the application and the evidence adduced, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant in the subject hearing de novo, Caulkins Oil Company, is the operator of Well No. T-123 located in the NW/4 NE/4 of Section 7, Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

(3) That the applicant in the subject hearing de novo, Caulkins Oil Company, has requested that only that portion of Order No. R-1191-A dealing with the proposed dual completion of its said Caulkins Well No. T-123 be considered at this hearing.

(4) That the applicant seeks permission to deepen the said Caulkins Well No. T-123 and to dually complete it in such a manner as to permit water injection into the Tocito formation and the production of gas from the Dakota Producing Interval through parallel strings of 2-3/8 inch EUE tubing.

(5) That the maximum expected surface pressure which will be required for water injection into the Tocito formation, plus the hydrostatic head of the water column, is such as to constitute a hazard to the known gas reserves in the Dakota Producing Interval.

(6) That in order to ensure that the Dakota Producing Interval is not damaged, permission to dually complete the aforesaid Caulkins Well No. T-123 in such a manner as to permit the injection of water into the Tocito formation and the production of gas from the Dakota Producing Interval should, under the Commission's obligation to prevent the waste of oil or gas, be denied.

(7) That permission should be granted, at the operator's option, to dually complete the said Caulkins Well No. T-123 in such a manner as to permit the production of oil from the Tocito formation and the production of gas from the Dakota Producing Interval through parallel strings of tubing, or to utilize said well as a water injection well in the Tocito formation without deepening it to produce from the Dakota Producing Interval, or to singly complete the well to produce gas from the Dakota Producing Interval and neither produce from nor inject into the Tocito formation.

(8) That the unorthodox gas well location of the said Caulkins Well No. T-123 should be approved inasmuch as the operator may choose one of the above options to produce the well from the Dakota Producing Interval.

IT IS THEREFORE ORDERED:

(1) That the application of Caulkins Oil Company for permission to deepen its Well No. T-123, located in the NW/4 NE/4 of Section 7, Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, and to complete said well in such a manner as to permit the injection of water into the Tocito formation and the production of gas from the Dakota Producing Interval through parallel strings of tubing be and the same is hereby denied.

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(2) That the applicant be and the same is hereby authorized to complete the said Caulkins Well No. T-123 in accordance with any one of the following procedures:

(a) Complete the well as a single completion in the Tocito formation, utilizing it as a water injection well in said Tocito formation or as a producing well in said formation.

(b) Complete the well as a single completion in the Dakota Producing Interval, utilizing said well for the production of gas from the Dakota Producing Interval.

(c) Complete the well as a dual completion, utilizing said well to produce oil from the Tocito formation and to produce gas from the Dakota Producing Interval.

(3) That an unorthodox gas well location for said Caulkins Well No. T-123 in the Dakota Producing Interval be and the same is hereby approved.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

**STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION**

JOHN BURROUGHS, Chairman

MURRAY E. MORGAN, Member

S E A L

A. L. PORTER, Jr., Member & Secretary

vem/

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 2971
Order No. R-1191-C

APPLICATION OF CAULKINS OIL COMPANY
FOR UNORTHODOX LOCATIONS, DUAL COM-
PLETIONS, AND EXPANSION OF A WATER-
FLOOD PROJECT, RIO ARRIBA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on January 22, 1964, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 5th day of February, 1964, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Caulkins Oil Company, seeks expansion of the South Blanco Water Injection Project Area established by Rule 11(a)-1 of the Special Rules and Regulations for the South Blanco-Tocito Oil Pool promulgated by Order No. R-1191, as amended by Order No. R-1191-A, to include the NE/4 of Section 10, the N/2, E/2 SW/4 and SE/4 of Section 11, all of Section 12, the N/2 of Section 13, and the N/2 of Section 14, Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

(3) That since the issuance of Order No. R-1191-A, the Secretary-Director of the Commission has granted administrative approval of expansion of the project area to include the S/2 S/2 of Section 5, Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

(4) That the applicant also seeks an exception to the Special Rules and Regulations for the South Blanco-Tocito Oil Pool to drill its Breech C Well No. D-189 at an unorthodox

location 1850 feet from the South line and 790 feet from the West line of said Section 12, and to drill its Breech C Well No. D-248 at an unorthodox location 1140 feet from the North line and 900 feet from the East line of said Section 13.

(5) That the applicant also seeks authority to complete its Breech C Well No. D-189 as a dual completion (conventional) to produce oil from the Tocito formation through 2 3/8-inch tubing and gas from the Dakota formation through 1 1/4-inch tubing, with separation of zones by a packer at approximately 7250 feet.

(6) That the applicant also seeks authority to complete its Breech C Well No. D-248 as a dual completion (conventional) to produce oil from the Tocito formation through 2 7/8-inch tubing and gas from the Dakota formation through the casing-tubing annulus by a crossover assembly with separation of zones by a packer at approximately 7200 feet.

(7) That the proposed expansion of the South Blanco Water Injection Project Area should result in increased ultimate recovery of oil, thereby preventing waste.

(8) That approval of the proposed unorthodox locations will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

(9) That the mechanics of the proposed dual completions are feasible and in accord with good conservation practices; that approval of the proposed dual completions will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That Rule 11(a)-1 of the Special Rules and Regulations for the South Blanco-Tocito Oil Pool promulgated by Order No. R-1191, as amended by Order No. R-1191-A, is hereby amended to read in its entirety as follows:

(a)-1. The project area shall comprise that area described as follows:

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM
Section 3: S/2 SW/4
Section 4: S/2
Section 5: S/2 S/2
Section 6: All
Section 7: NE/4
Section 8: N/2
Section 9: N/2 and N/2 S/2
Section 10: N/2, N/2 SW/4, and SE/4

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Section 11: All
Section 12: All
Section 13: N/2
Section 14: N/2

(2) That the applicant is hereby granted an exception to the Special Rules and Regulations for the South Blanco-Tocito Oil Pool to drill its Breech C Well No. D-189 at an unorthodox location 1850 feet from the South line and 790 feet from the West line of Section 12, and to drill its Breech C Well No. D-248 at an unorthodox location 1140 feet from the North line and 900 feet from the East line of Section 13, Township 26 North, Range 6 West, NMPM, South Blanco-Tocito Oil Pool, Rio Arriba County, New Mexico.

(3) That the applicant is hereby authorized to complete its Breech C Well No. D-189 as a dual completion (conventional) to produce oil from the Tocito formation through 2 3/8-inch tubing and gas from the Dakota formation through 1 1/4-inch tubing, with separation of zones by a packer at approximately 7250 feet; that the applicant is hereby authorized to complete its Breech C Well No. D-248 as a dual completion (conventional) to produce oil from the Tocito formation through 2 7/8-inch tubing and gas from the Dakota formation through the casing-tubing annulus by a crossover assembly with separation of zones by a packer at approximately 7200 feet.

PROVIDED HOWEVER, That the applicant shall complete, operate, and produce said wells in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

PROVIDED FURTHER, That the applicant shall take packer-leakage tests upon completion and annually thereafter during the Deliverability Test Period for the Basin-Dakota Gas Pool.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

JACK M. CAMPBELL, Chairman

S E A L

E. S. WALKER, Member

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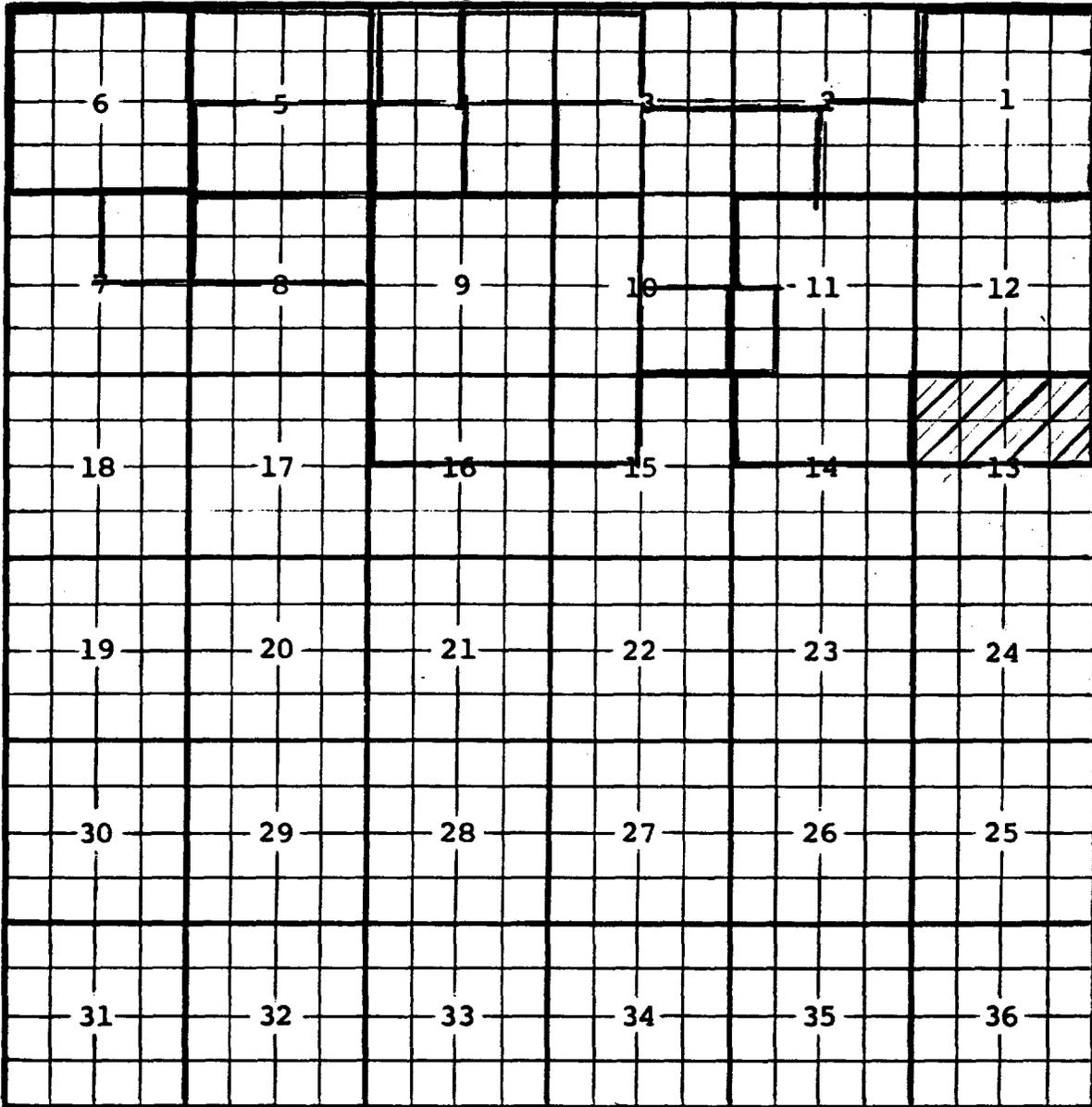
A. L. PORTER, Jr., Member & Secretary

County Rio Arriba Pool South Blanco-Tecito Oil

Township 26 North

Range 6 West

NMPM



Description: All Sec. 9; $\frac{1}{2}$ Sec. 10; $\frac{NW}{4}$ Sec. 15; $\frac{1}{2}$ Sec. 16 (R. 132, 3-26-52)
 Ext: $\frac{SW}{4}$ Sec. 3; $\frac{SE}{4}$ Sec. 4 (R. 166, 6-19-52) = $\frac{SE}{4}$ Sec. 10 (R. 311, 4-10-53)
 Pool Name Change (R. 321) - $\frac{SW}{4}$ Sec. 4 (R. 366, 9-17-53)
 - $\frac{1}{2}$ Sec. 8 (R. 394, 11-24-53) - $\frac{1}{2}$ Sec. 5; All Sec. 6 (R. 406, 7-26-54)
 - $\frac{NE}{4}$ Sec. 7 (R. 409, 3-31-54) - $\frac{1}{2}$ $\frac{SW}{4}$ Sec. 11 (R. 1239, 9-158) = $\frac{N}{2}$, $\frac{SE}{4}$, $\frac{1}{2}$ $\frac{SW}{4}$ Sec 11;
 All Sec. 12; $\frac{1}{2}$ Sec. 13; $\frac{1}{2}$ Sec. 14 (R. 2858, 2-1-65)
 Deletion: $\frac{1}{2}$ Sec. 13 (R. 3281, 8-1-67) Ext: $\frac{NW}{4}$ Sec. 4 (R. 7495, 4-5-84)
 Ext: $\frac{NW}{4}$ Sec. 3, $\frac{NE}{4}$ Sec. 4 (R. 8417, 3-24-87) Ext: $\frac{1}{2}$ Sec. 5 (R. 9982, 10-1-93)
 Ext: $\frac{SW}{4}$ Sec. 2, $\frac{SE}{4}$ Sec. 3, $\frac{NE}{4}$ Sec. 10 (R. 10990, 5-20-98)
 Ext: All Sec. 1, $\frac{SE}{4}$ Sec. 2 (R. 11445, 9-5-00)

