UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED JUL 27 1998 OIL CON. DIV. DIST. 3

1a. Type of Work **DRILL**	5. Lease Number NM-03733
1b. Type of Well **GAS**	6. If Indian, Name of Allottee or Tribe
2. Operator **CAULKINS OIL COMPANY** 3824	7. Unit Agreement Name 30-039-25926
3. Address & Phone No. of Operator **c/o ROBERT VERQUER** **P. O. Box 340, Bloomfield, NM 87413** **(505) 632-1544**	8. Farm or Lease Name **BREECH** 2454
	9. Well Number **228-M**
4. Location of Well **1520 FSL & 1122' FEL**	10. Filed, Pool, or Wildcat 71599 **Basin Dakota - Blanco Mesa Verde** 72319
	11. Section, Township, & Range, Meridian, or Block I 18-26N-6W
14. Distance in Miles from Nearest Town **30 miles southeast of Blanco, NM Post Office.**	12. County **Rio Arriba**
	13. State **New Mexico**

15. Distance from Proposed Location To Nearest Property Line or Lease Line **1122'**	16. Acres in Lease **2400 Acres**	17. Acres Assigned to Well E/2 320 **East - 320 Acres**
18. Distance From Proposed Location To Nearest Well Drill, Compl., Or Applied For on Lease **501'**	19. Proposed Depth **7520'**	20. Rotary or Cable Tools **ROTARY**

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

21. Elevations (DR, RT, GR, Etc.) **6709' GR**	22. Approximate Date Work Will Start **September 15, 1998**

23. Proposed Casing and Cementing Program

EXHIBITS attached as follows

"A" Location and Elevation Plat
"B" Ten-Point Compliance Program
"C" Blowout Preventer Schematic
"D" Multi-Point Requirements for APD
"E" Vicinity Map - Access Roads
"F" Drill Rig Layout
"G" Production Facility Schematic
"H" Acerage dedication plat
"I" Archaeolgical Report

24. Signed Robert L Verquer Title **Superintendent** Date 05/14/98
Robert L. Verquer

Permit No. _____ Approval Date 7/24/98

Approved By _____ Title _____ Date 7/24/98

NOTE: THIS FORMAT IS ISSUED IN LIEU OF U.S. BLM FORM 3160-3

OK

NMOCD

TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company
Breech 228-M
1520' FSL & 1122' FEL, Sec. 18, 26N, 6W
Rio Arriba County, New Mexico
Lease No. NM - 03733

1. The Geological Surface Formation is : San Jose.

2. The Estimated Tops of Important Geological Markers:

Ojo Alamo	2378'
Picture Cliffs	2998'
Chacra	3872'
Point Lookout	5276'
Greenhorn	7174'
Dakota	7286'
TD	7520'

3. Estimated Depths and pressures of Anticipated Water, Oil, Gas or Minerals:

Substance	Formation	Depth	Pressure
Water	Alamo	2461'	0
Gas	Pictured Cliffs	3056'	450
Gas	Chara	3974'	500
Gas	Mesa Verde	5434'	1000
Gas	Dakota	7470'	1500

4. The proposed casing program will be as follows:

Depth	Hole Size	O.D.	Weight	Grade	Type	New/Used
0-350	12-1/4	9-5/8	36.00#	J55	LT&C	NEW
0-1000	7-7/8	5-1/2	17.00#	K55	LT&C	NEW
1000-6520	7-7/8	5-1/2	15.50#	K55	LT&C	NEW
6520-7520	7-7/8	5-1/2	17.00#	K55	LT&C	NEW

The proposed cement program will be as follows:

Surface: 154 sacks class H with 1% CaCl and 1/4# per sack cellophane flake.

VOLUME CALCULATIONS
YIELD 1.14 350 ft x 0.3132 cu-ft/ft with 60% excess = 175 cu-ft

PRODUCTION: Cement will be run in three stages with stage tools set at approximately 3520' and 5520'.

1st stage Cement through shoe at approx. 7520' with 208 sacks class B 35/65 poz + 6% gel (bentonite) + 1/4# /sk cellophane flake followed by 100 sacks class H + 1% CaCl + 1/4# /sk cellophane flake.

VOLUME CALCULATIONS
YIELD 1.79 1341 ft x 0.1732 cu-ft/ft with 60% excess = 372 cu-ft
YIELD 1.14 659 ft x 0.1732 cu-ft/ft with 0% excess = 114 cu-ft

2nd stage Cement through tool at approx. 5520' with 208 sacks class B 35/65 poz + 6% gel (bentonite) + 1/4# /sk cellophane flake followed by 100 sacks class H + 1% CaCl + 1/4# /sk cellophane flake.

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DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Departm

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised Febuary 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-039-25926	71599	Basin Dakota

[4] Property Code	[5] Property Name	[6] Well Number
2454	BREECH	228M

[7] OGRID No.	[8] Operator Name	[9] Elevation
3824	CAULKINS OIL CO.	6709

[10] Surface Location

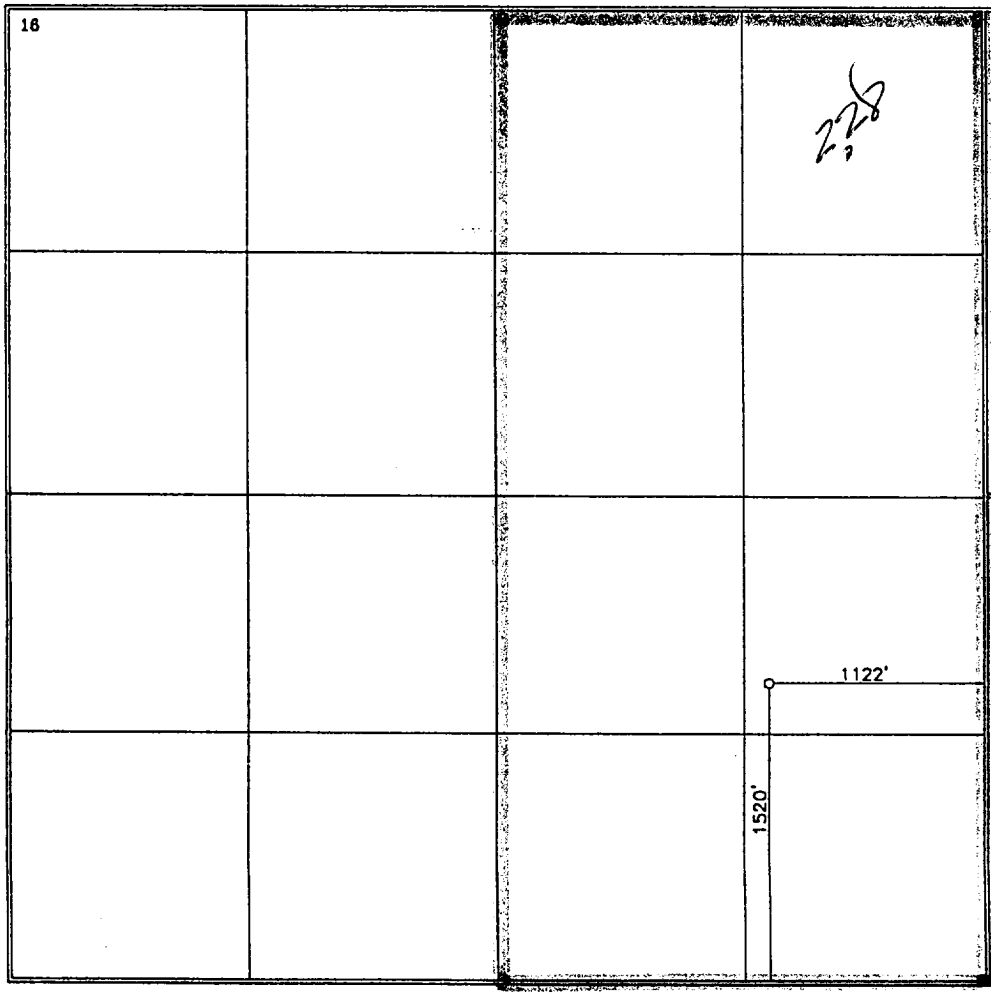
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	18	26-N	6-W		1520	SOUTH	1122	EAST	Rio Arriba

[11] 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

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320			

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 herein is true and complete to the best of my knowledge and belief

Robert L Verquer
Signature

Robert L. Verquer
Printed Name

Superintendent
Title

May 14, 1998
Date

[18] SURVEYOR CERTIFICATION

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 belief.

10-1-98
Date of Survey

Signature and Seal of Professional Surveyor

RON A. RUSH
NEW MEXICO
8894
REGISTERED PROFESSIONAL LAND SURVEYOR

8894
Certificate Number

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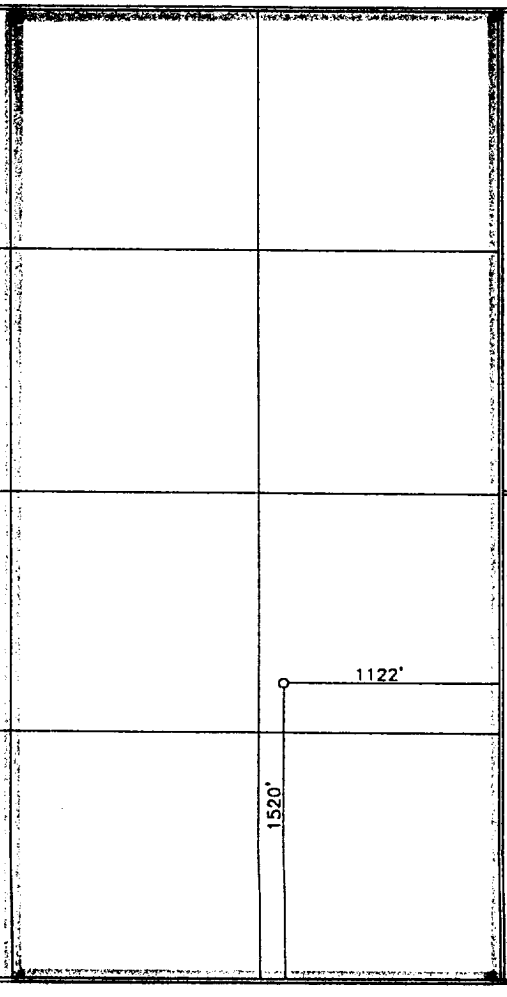

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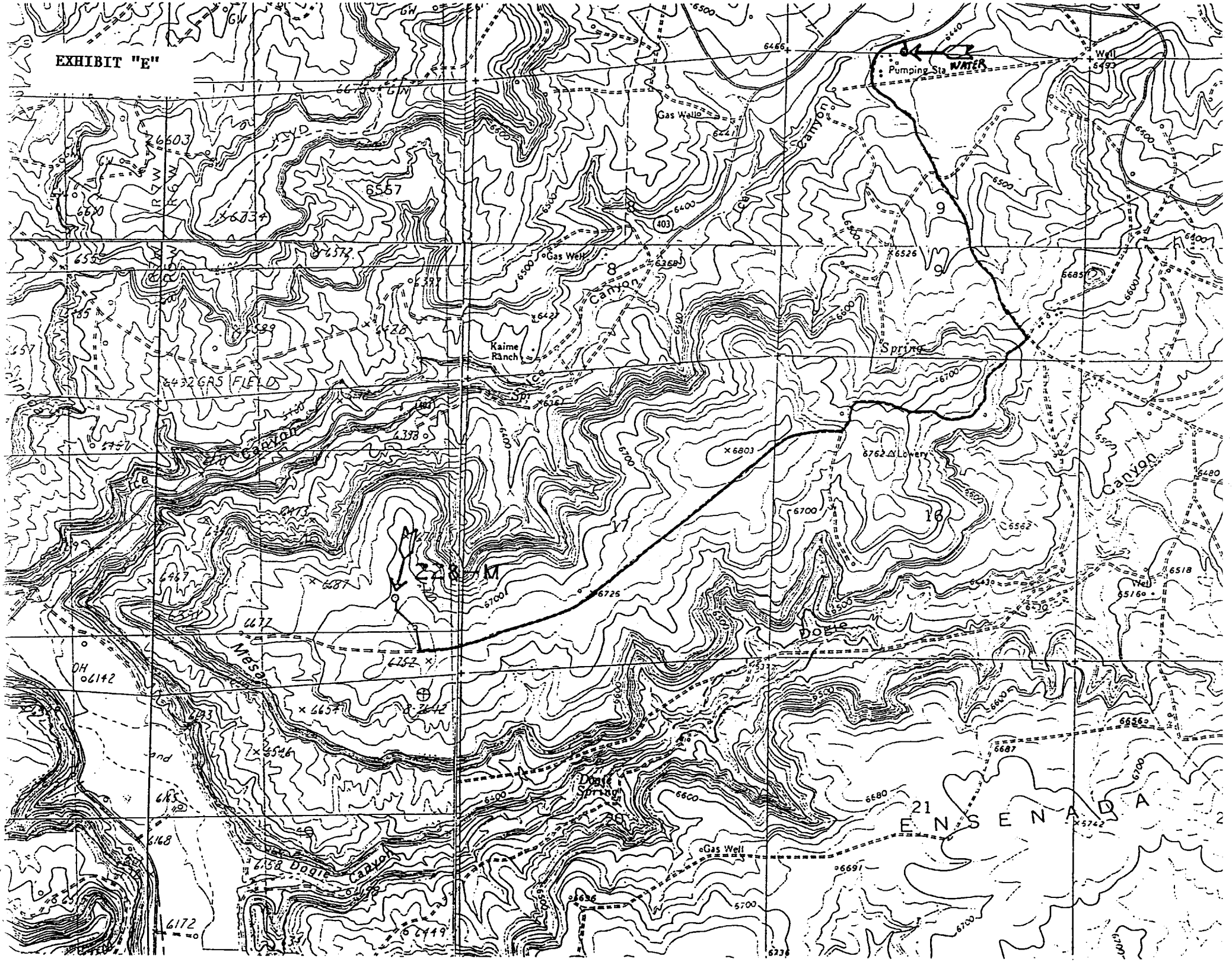
ROY A. RUSH
NEW MEXICO
8894
REGISTERED PROFESSIONAL LAND SURVEYOR

8894
Certificate Number

EXHIBIT "E"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Gas Wells
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Kaime Ranch
GAS FIELD
Spring
Canyon
Mesa
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Dogie Canyon
ENSENADA
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