DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
TRANSPORTER	OIL	
	GAS	
OPERATOR		
PRORATION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

I.

Operator: Caulkins Oil Company

Address: P.O. Box 780 Farmington, New Mexico

Reason(s) for filing *(Check proper box)*: New Well [X]; Recompletion [ ]; Change in Ownership [ ]; Change in Transporter of: Oil [ ], Dry Gas [ ], Casinghead Gas [ ], Condensate [ ]

Other *(Please explain)*:

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
Breech "E"	70	South Blanco PC	State, Federal or Fee Fed NM 03551	

Location: Unit Letter H ; 1450 Feet From The North Line and 1090 Feet From The East

Line of Section 4 Township 26 N Range 6 W , NMPM, Rio Arriba County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil [ ] or Condensate [ ]	Address *(Give address to which approved copy of this form is to be sent)*
Name of Authorized Transporter of Casinghead Gas [ ] or Dry Gas [X]	Address *(Give address to which approved copy of this form is to be sent)*
Gas Company of New Mexico	1508 Pacific Ave, Dallas, Texas

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
					No	

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion – (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
6-15-78	7-5-78	3110	3110
Elevations *(DF, RKB, RT, GR, etc.,*	**Name of Producing Formation**	**Top Oil/Gas Pay**	**Tubing Depth**
6473 Gr	Pictured Cliffs	2940	3087
Perforations 2940 to 2998			**Depth Casing Shoe** 3110

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12 1/4"	8 5/8"	104'	100
7 7/8"	4 1/2"	3110'	520
	1"	3087'	

V. TEST DATA AND REQUEST FOR ALLOWABLE *(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)*

OIL WELL

Date First New Oil Run To Tanks	Date of Test	Producing Method *(Flow, pump, gas lift, etc.)*	
Length of Test	**Tubing Pressure**	**Casing Pressure**	**Choke Size**
Actual Prod. During Test	**Oil-Bbls.**	**Water-Bbls.**	**Gas-MCF**

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
1218	3 hrs		
Testing Method *(pitot, back pr.)*	**Tubing Pressure (Shut-in)**	**Casing Pressure (Shut-in)**	**Choke Size**
Back pressure	910	910	3/4"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Dwayne Blencoe
(Signature)
Prod. Foreman
(Title)
7-28-78
(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19 _____

BY Original Signed by E. S. Walker

TITLE SUPERVISOR DIST. #3

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply

District I
P.O. Box 1980, Hobbs, NM

District II
P.O. Drawer DD, Artesia, NM 88221

District III
1000 Rio Brazos Rd, Aztec, NM 87410

Jerry D. Foust
DEPUTY OIL & GAS INSPECTOR
JUN 23 1998

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Caulkins) **Telephone:** 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Breech E #70

Location: Unit H Sec 4 T 26N R 6W County Rio Arriba

Pit Type: Separator ✓ Dehydrator ___ Other ___

Land Type: BLM ✓ State ___ Fee ___ Other No

Pit Location: Pit dimensions: length 20 ' width 20 ' depth 3 '

(Attach diagram) Reference: wellhead ✓ other ___

Footage from reference: 50'

Direction from reference: 10 Degrees ___ East North ✓ of ✓ West South ___

Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet	(20 points)	
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 points)	0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	Yes	(20 points)	
	No	(0 points)	0
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	(20 points)	
	200 feet to 1,000 feet	(10 points)	
	Greater than 1,000 feet	(0 points)	0
RANKING SCORE (TOTAL POINTS):			0

RECEIVED
FEB - 1998
OIL CON. DIV.
DIST. 3

Breech E #70

Date Remediation Started: 7/21/97 **Date Completed:** 7/21/97

Remediation Method: (Check all appropriate sections)
Excavation X Approx. Cubic Yard 213
Landfarmed X Amount Landfarmed (cubic yds) 213
Other

Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)
Onsite X Offsite

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to a pit size of 20' X 16' X 18' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

*** Bedrock encountered at 28'. See attached risk analysis form and laboratory analysis.

Ground Water Encountered: No ✓ Yes — Depth

Final Pit Closure Sampling: (if multiple samples, attach sample result and diagram of sample locations and depths.)
Sample Location Bottom of excavation.
Sample depth 18'
Sample date 7/21/97 Sample time 2:00:00 PM

Sample Results
Benzene (ppm) < 2.5000
Total BTEX (ppm) *** 340.5760
Field headspace (ppm)
TPH (ppm) 2017.00 Method 8015A

Vertical Extent (ft) 28' Risk Assessment form attached Yes ✓ No —

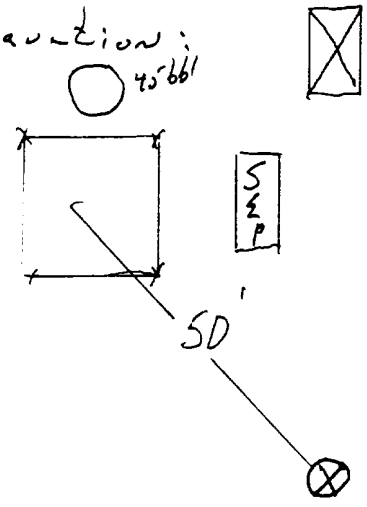
Ground Water Sample: Yes — No ✓ (If yes, see attached Groundwater Site Summary Report)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

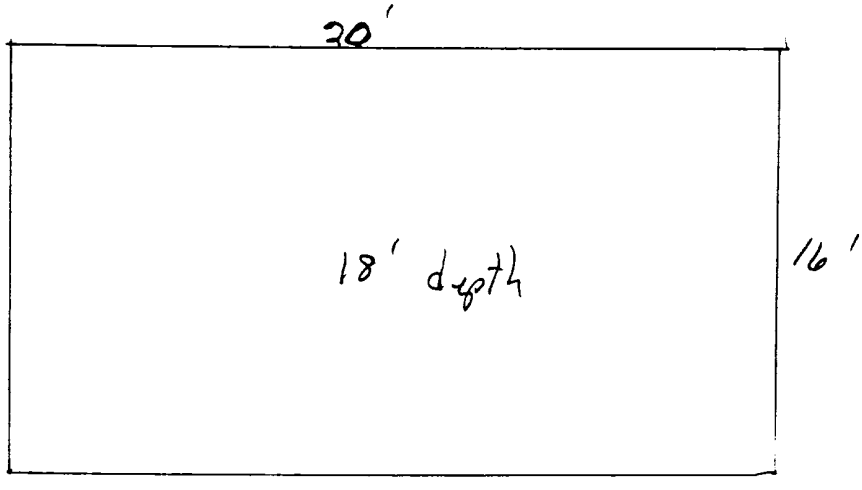
DATE **January 27, 1998**
SIGNATURE Denver Bearden
PRINTED NAME AND TITLE **Denver Bearden Administrator III**

Breech E #70 7/21/97
Conklin Oil
Sec. 4, 26N, 6W, H

start of excavation:



End of excavation:



OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	24-Jul-97
Company:	*PNM Gas Services*	COC No.:	*5927*
Address:	*603 W. Elm*	Sample No.:	*15423*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Breech E #70***				
Project Location:	***9707211400; Bottom @ 18'***				
Sampled by:	GC	Date:	21-Jul-97	Time:	14:00
Analyzed by:	DC	Date:	23-Jul-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Diesel Range Organics (C10 - C28)	2017	mg/kg	10	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Diesel Range (C10 - C28)	ND	ppm	200	197	1.6	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	89	87	(70-130)	2	20%

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:

Date: 7/24/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	25-Jul-97
Company:	*PNM Gas Services*	COC No.:	*5927*
Address:	*603 W. Elm*	Sample No.:	*15423*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Breech E #70***				
Project Location:	***9707211400; Bottom @ 18'***				
Sampled by:	GC	Date:	21-Jul-97	Time:	14:00
Analyzed by:	DC	Date:	23-Jul-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/kg	2500	ug/kg
Toluene	12945	ug/kg	2500	ug/kg
Ethylbenzene	15588	ug/kg	2500	ug/kg
m,p-Xylene	210703	ug/kg	2500	ug/kg
o-Xylene	101340	ug/kg	2500	ug/kg
TOTAL	340576	ug/kg		

ND - Not Detected at Limit of Quantitation

Method - *SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography*

Approved by: [signature]

Date: 7/28/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	24-Jul-97
Company:	*PNM Gas Services*	COC No.:	*5921*
Address:	*603 W. Elm*	Sample No.:	*15422*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Breech E #70***				
Project Location:	***9707211430; 4 Walls @ 16'***				
Sampled by:	GC	Date:	21-Jul-97	Time:	14:30
Analyzed by:	DC	Date:	23-Jul-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Diesel Range Organics (C10 - C28)	111	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Diesel Range (C10 - C28)	ND	ppm	200	197	1.6	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	89	87	(70-130)	2	20%

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by: CaG

Date: 7/24/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	28-Jul-97
Company:	*PNM Gas Services*	COC No.:	*5921*
Address:	*603 W. Elm*	Sample No.:	*15422*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Breech E #70***				
Project Location:	***9707211430; 4 Walls @ 16'***				
Sampled by:	GC	Date:	21-Jul-97	Time:	14:30
Analyzed by:	DC	Date:	23-Jul-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/kg	100	ug/kg
Toluene	514	ug/kg	100	ug/kg
Ethylbenzene	1813	ug/kg	100	ug/kg
m,p-Xylene	13415	ug/kg	100	ug/kg
o-Xylene	2700	ug/kg	100	ug/kg
TOTAL	18442	ug/kg		

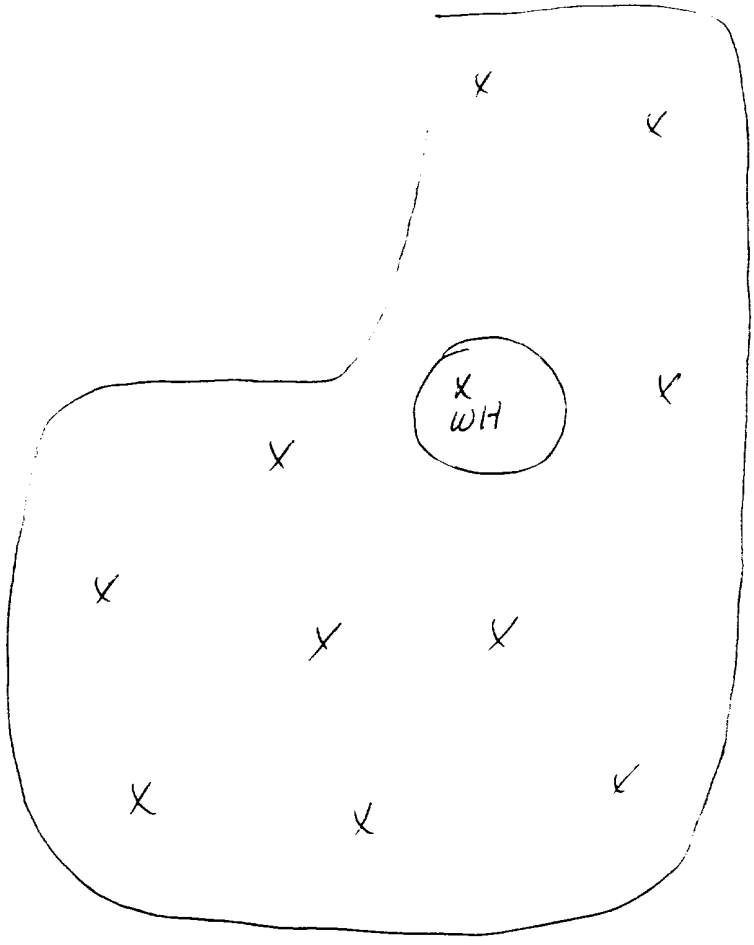
ND - Not Detected at Limit of Quantitation

Method - *SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography*

Approved by: *Date:* 7/28/97

↑
N

8-14-97 - @ 1300
Breech # 70
Caulkins
(H) 4-26N-6W
Lemal farm field head space - 3.2 PPM
Sample # 9708141300



OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	19-Aug-97
Company:	*PNM Gas Services*	COC No.:	*5204*
Address:	*603 W. Elm*	Sample No.:	*15804*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Breech #70 Landfarm***				
Project Location:	***9708141300; Composite Sample***				
Sampled by:	RH	Date:	14-Aug-97	Time:	13:00
Analyzed by:	HR/DC	Date:	18-Aug-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Diesel Range (C10 - C28)	ND	ppm	200	183	8.9	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	83	82	(70-130)	1	20%

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by: DaG

Date: 8/19/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	24-Nov-97
Company:	*PNM Gas Services*	COC No.:	*5832*
Address:	*603 W. Elm*	Sample No.:	*16828*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Breech E #70***				
Project Location:	***9711111440; 28' depth***				
Sampled by:	GC	Date:	11-Nov-97	Time:	14:40
Analyzed by:	DC/HR	Date:	18-Nov-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Diesel Range (C10 - C28)	ND	ppm	200	201	0.7	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	110	113	(70-130)	2	20%

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 11/24/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	24-Nov-97
Company:	*PNM Gas Services*	COC No.:	*5832*
Address:	*603 W. Elm*	Sample No.:	*16828*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Breech E #70***				
Project Location:	***9711111440; 28' depth***				
Sampled by:	GC	Date:	11-Nov-97	Time:	14:40
Analyzed by:	DC	Date:	17-Nov-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/kg	1	ug/kg
Toluene	1	ug/kg	1	ug/kg
Ethylbenzene	ND	ug/kg	1	ug/kg
m,p-Xylene	4	ug/kg	1	ug/kg
o-Xylene	2	ug/kg	1	ug/kg
TOTAL	7	ug/kg		

ND - Not Detected at Limit of Quantitation

Method - *SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 11/24/97

PNM Gas Services

Well Name:	Breech E #70
Well Legals:	Unit H, Sec 4, T26N, R6W
Pit Type:	Separator
Horizontal Distance to Surface Water:	Greater than 1,000 ft
Groundwater Depth:	Greater than 100 ft

RISK ANALYSIS

PNM requests closure of the Breech E #70 using a limited risk analysis of the site conditions.

1. PNM estimated groundwater to be at a depth of 180 ft. based upon elevation of site to the Largo Wash. (Reference: topographic map.)

2. This site is not located within 200 ft. of a domestic water well and is not within 1,000 ft. of any other water source.

3. Distance from the site to surface water is greater than 1,000 ft.

4. PNM excavated 213 cu. yds. from the former pit. Vertical extent was determined using a hollow stem drilling rig. Bedrock was encountered @ 28 ft. below ground surface.

Based upon the information provided above, PNM believes the Breech E #70 poses minimal risk to the environment. Subsurface lateral migration is limited based upon PNM's past experience in excavating 800 pits. Source removal minimizes the possibility of surface water contamination. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is highly unlikely.