

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-101  
Revised March 17, 1999

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

<sup>1</sup> Operator Name and Address ARCH PETROLEUM, INC. P.O. BOX 10340 MIDLANE, TEXAS 79702-7340		<sup>2</sup> OGRID Number 962
		<sup>3</sup> API Number 30-025-35345
<sup>4</sup> Property Code 27142	<sup>5</sup> Property Name E.C. HILL "C"	<sup>6</sup> Well No. 3

<sup>7</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	27	23S	37E		1950'	South	990'	West	LEA

<sup>8</sup> 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

<sup>9</sup> Proposed Pool 1 TEAGUE-SIMPSON (58900)	<sup>10</sup> Proposed Pool 2
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<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary ROTARY	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3289'
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth 9800'	<sup>18</sup> Formation SIMPSON	<sup>19</sup> Contractor UNKNOWN	<sup>20</sup> Spud Date WHEN APPROVED

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48	1100'	1200 Sx.	SURFACE
12 1/4"	9 5/8"	40.5	3100'	1200 Sx.	SURFACE
* 8 1/2"	7"	26	7950'	1000Sx	3000'
* 6 1/8"	5"	18	9800 to 7000'	300 Sx	7000'
* 7 7/8"	5 1/2"	17 & 20	9800.	1150 Sx.	2900'

<sup>22</sup> 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.

SEE ATTACHED PAGE

Permit Expires 1 Year From Approval  
Date: JAN 22 2001

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Joe T. Janica</i>		OIL CONSERVATION DIVISION	
Printed name: Joe T. Janica		Approved by:	
Title: Agent		Title:	
Date: 01/19/01		Approval Date: JAN 22 2001	Expiration Date:
Phone: 505-391-8503		Conditions of Approval:	
		Attached <input type="checkbox"/>	

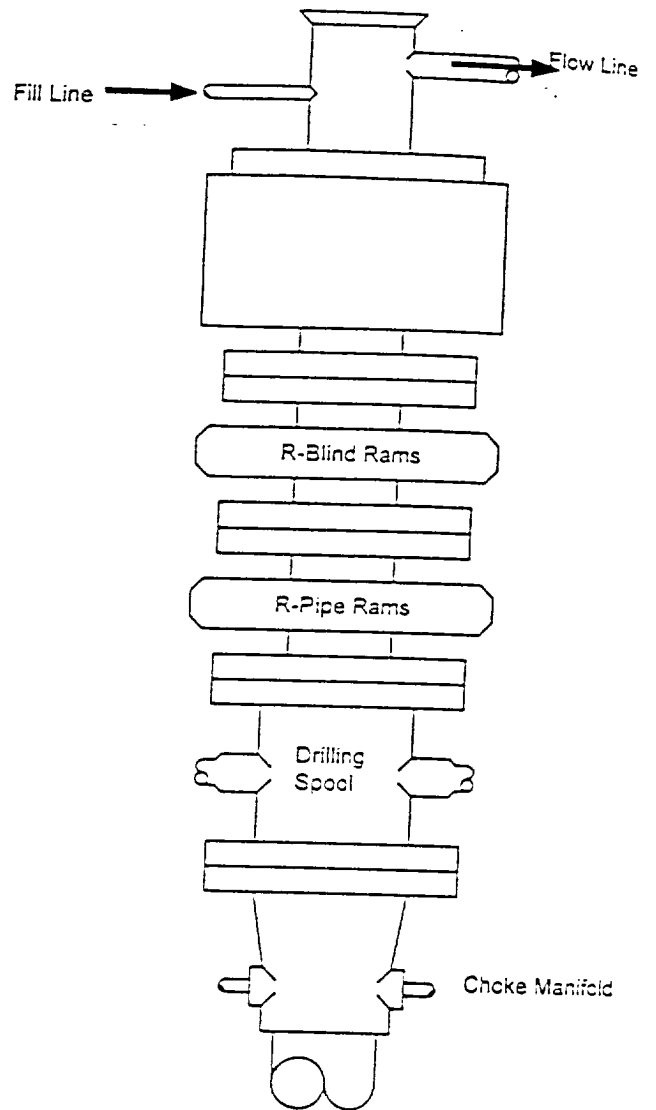
8/2/01

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 1100'. Run and set 1100' of 13 3/8" 54.5# J-55 ST&C casing. Cement with 1200 Sx. of Class "C" cement + additives, circulate to surface.
3. Drill 12¼" hole to 3100'. Run and set 3100' of 9 5/8" 40.5# J-55 ST&C casing. Cement with 1200 Sx. of Class "C" cement + additives, circulate cement to surface.
- \* 4. Drill 8½" hole to 7950' if lost circulation becomes a problem set 7" 26# N-80 ST&C casing through problem zones. Cement in two stages with DV tool at 4500', cement with 1000 Sx. of Class "H" then drill out with a 6 1/8" hole to 9800' and run a 5" liner from 9800' to 7000' and cement with 300 Sx. of Class "H" low water loss cement. If no lost circulation problems are encountered on reaching 7950' reduce hole size to 7 7/8" and drill to 9800'. Run and set 9800' of 5½" 17 & 20# N-80 LT&C casing. Cement placing DV tools at 7000'± & 4500'±, first stage cement with 500 Sx. of Class "H" low waterloss cement, second stage cement with 450 Sx. of Class "H" Halco Light, third stage cement with 200 Sx. of Class "C" Halco Light + additives. Estimate top of cement 2900'.

ARCH PETROLEUM, INC.

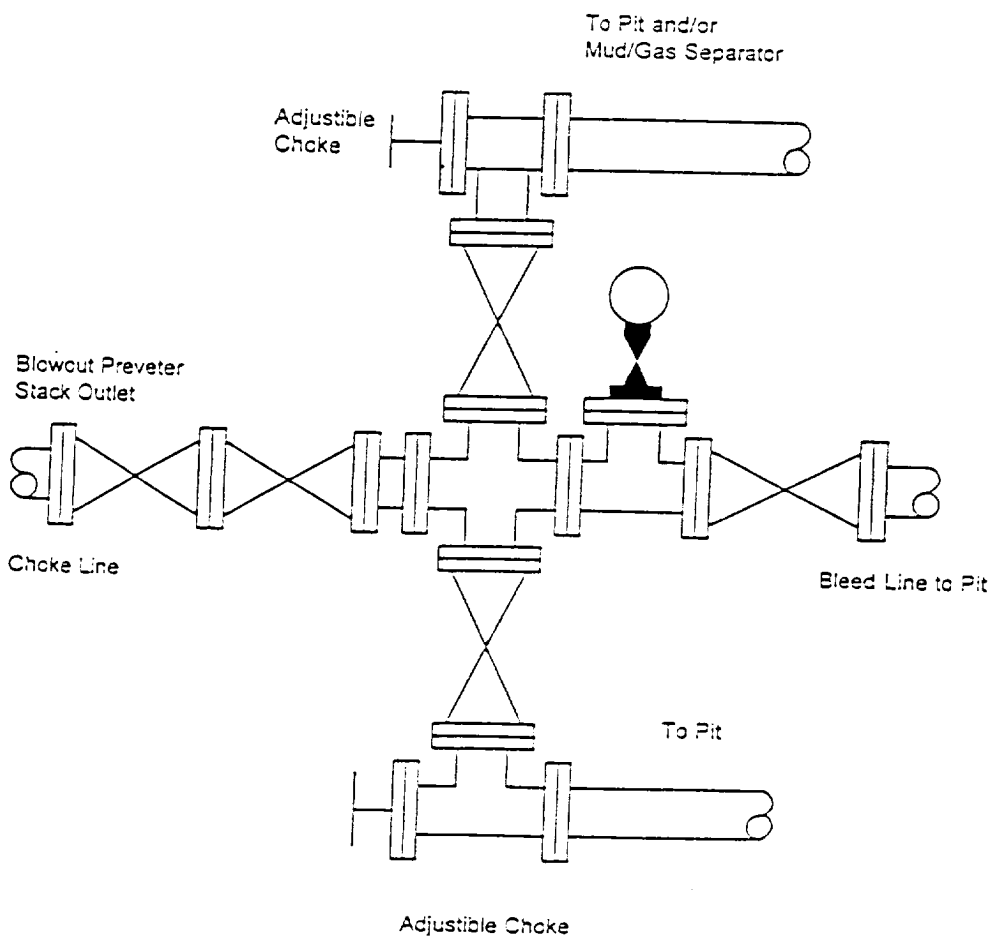
E.C. HILL "C" # 3  
1950' FSL & 990' FWL  
SEC. 27 T23S-R37E  
LEA CO. NM

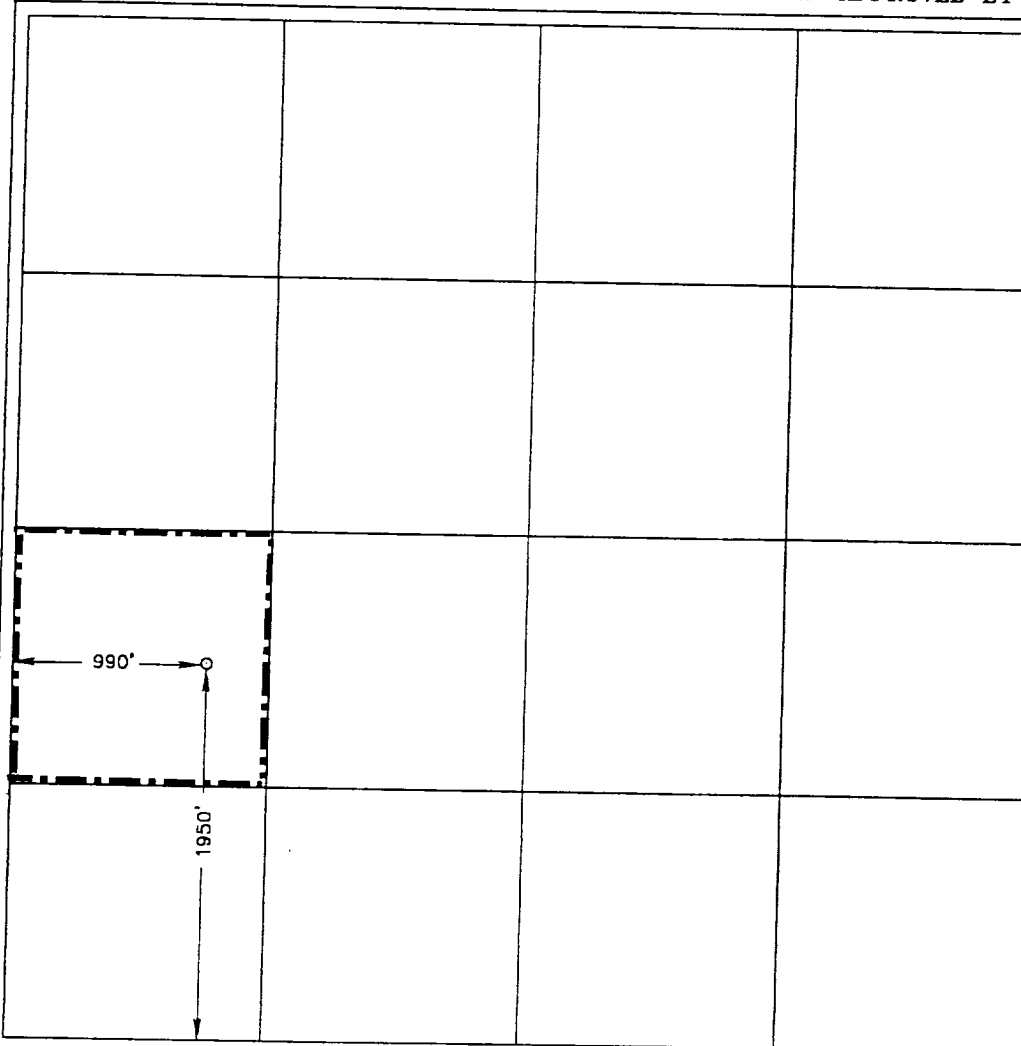
# BLOWOUT PREVENTER SYSTEM



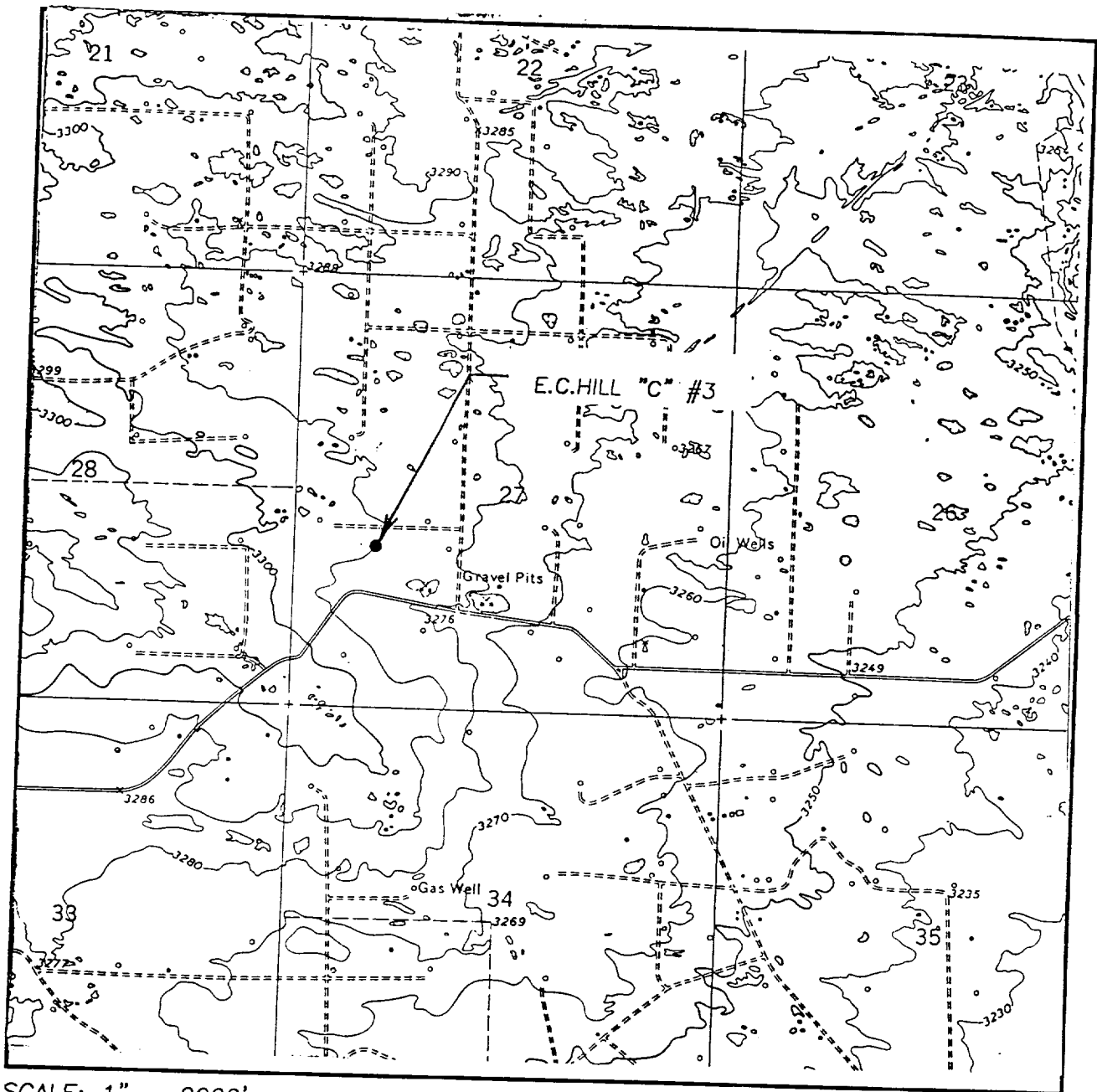
Type 900 Series  
3000 psi WP.

## Choke Manifold Assembly for 3M WP System



	<div style="text-align: center;"><b>OPERATOR CERTIFICATION</b></div> <p><i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <div style="text-align: right; font-size: 1.2em;"><i>Joe T. Janica</i></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">Signature</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">Joe T. Janica</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">Printed Name</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">Agent</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">Title</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px; text-align: center;">01/19/01</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">Date</div>
	<div style="text-align: center;"><b>SURVEYOR CERTIFICATION</b></div> <p><i>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.</i></p> <div style="text-align: center; margin-top: 20px;">JANUARY 17, 2001</div>
	<div style="border-bottom: 1px solid black; margin-bottom: 5px;">Date Surveyed</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">Signature &amp; Seal of Professional Surveyor</div> <div style="text-align: right; margin-right: 50px;"><i>Ronald J. Eidson</i> 01/18/01</div>
	<div style="border-bottom: 1px solid black; margin-bottom: 5px; text-align: center;">00-11-1628</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">Certificate No. RONALD J. EIDSON 3239</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px; text-align: right;">GARY EIDSON 12641</div>

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'  
RATTLESNAKE CANYON, N.M.

SEC. 27 TWP. 23-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1950' FSL & 990' FWL

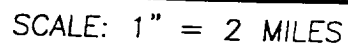
ELEVATION 3289

OPERATOR ARCH PETROLEUM, INC.

LEASE E.C. HILL "C"

U.S.G.S. TOPOGRAPHIC MAP  
RATTLESNAKE CANYON, N.M.

JOHN WEST SURVEYING  
HOBBS, NEW MEXICO  
(505) 393-3117



LEASE \_\_\_\_\_ E.C.HILL "C"

JOHN WEST SURVEYING  
HOBBS, NEW MEXICO  
(505) 393-3117

ELF 12/4/03  
ABOVE DATE DOES NOT  
INDICATE WHEN  
CONFIDENTIAL LOGS  
WILL BE RELEASED