

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, 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

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

Form C-101  
Revised February 21, 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

<sup>1</sup> Operator Name and Address. THOMPSON ENGR. & PROD CORP. 7415 E. Main Farmington, New Mexico 87402		<sup>2</sup> OGRID Number 037581
		<sup>3</sup> API Number 30 - 037-25585
<sup>4</sup> Property Code 19117	<sup>5</sup> Property Name Gonzales	<sup>6</sup> Well No. 1

<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
P	30	32N	2E		350'	South	1090'	East	Rio Arriba

<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
96584 WC 32N 2E 30P									
Wildcat Entrada Oil Well 30, 32N, 2E, P-Entrada (Oil)					<sup>9</sup> Proposed Pool 2				

<sup>10</sup> Work Type Code N	<sup>11</sup> Well Type Code O	<sup>12</sup> Cable/Rotary R	<sup>13</sup> Lease Type Code P	<sup>14</sup> Ground Level Elevation 8327
<sup>15</sup> Multiple No	<sup>16</sup> Proposed Depth 2400'	<sup>17</sup> Formation Entrada	<sup>18</sup> Contractor L&B Speed Drill	<sup>19</sup> Spud Date 7/8/96

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

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
8 3/4	7	20#	120	31	Surface
6 1/4	4 1/2	10.5#	2400	180 & 50	Surface

<sup>20</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.

Propose to drill a vertical well to test the Entrada Formation according to the attached Operation Plan.

RECEIVED  
JUL 01 1996

OIL CON. DIV.

<sup>22</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Paul C. Thompson</i> Printed name: Paul C. Thompson Title: President Date: June 28, 1996		OIL CONSERVATION DIVISION Approved by: <i>Ernie Busch</i> Title: DEPUTY OIL & GAS INSPECTOR, DIST. #3 Approval Date: JUL - 1 1996 Expiration Date: JUL - 1 1997 Conditions of Approval: <i>NSC-3681</i> Attached <input type="checkbox"/>	
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District I  
PO Box 1900, Hobbs, NM 88241-1900  
District II  
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District III  
1000 Rio Bravo Rd., Aztec, NM 87410  
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PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

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

Form C-102  
Revised February 10, 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

API Number <b>30-039-25585</b>		Pool Code <b>96584</b>		Well Name <b>Wildcat-Entrada WC 32N2E30P-ENTRADA (O)</b> <b>Oil Well/30, 32N, 2E, P: Entrada (Oil)</b>	
Property Code <b>19117</b>		Property Name <b>GONZALES</b>			Well Number <b>No. 1</b>
OGRID No. <b>037581</b>		Operator Name <b>THOMPSON ENGR. &amp; PROD. CORP.</b>			Elevation <b>8327</b>

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Foot from the	North/South Line	Foot from the	East/West Line	County
<b>P</b>	<b>30</b>	<b>32N</b>	<b>2E</b>		<b>350</b>	<b>South</b>	<b>1090</b>	<b>East</b>	<b>Rio Arriba</b>

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Foot from the	North/South Line	Foot from the	East/West Line	County
Dedication Acres <b>40</b>		Joint or Infill		Consolidation Code		Order No.			

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

16	<div style="text-align: center;"><b>RECEIVED</b> <b>JUL 01 1996</b> <b>OIL CON. DIV.</b> <b>DIST. 3</b></div> <div style="text-align: center;"><b>30</b></div> <div style="text-align: center;"><b>Gonzales No. 1</b> <b>1090'</b> <b>350'</b></div>				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  <div style="text-align: right;"><b>Paul C. Thompson</b> Signature <b>Paul C. Thompson</b> Printed Name <b>Agent</b> Title <b>6/3/96</b> Date</div>	
					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.  <div style="text-align: right;"><b>17 May 1996</b> Date of Survey <b>William H. Albert</b> Professional Surveyor <b>7241</b> Registration Number</div>	

THOMPSON ENGR. & PROD CORP.  
**GONZALES #1**

I. Location: 350' FSL & 1090' FEL  
Sec 30 T32N R2E  
Rio Arriba, NM

Date: June 20, 1996

Field: Wildcat Entrada  
Surface: Fee  
Minerals: Fee

Elev: GL 8327'

II. Geology: Surface formation \_ Mancos

<u>A. Formation Tops</u>	<u>Depths</u>
Dakota	1206
Morrison	1546
Todilto	2202
Entrada	2270
Total Depth	2400

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 1206'; water - 1546'; oil - 2270'.

B. Logging Program: Induction/GR and density logs at TD.

C. No over pressured zones are expected in this well. No H<sub>2</sub>S zones will be penetrated in this well.

III. Drilling

A. Contractor: L & B Speed Drill

B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The production hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.7 ppg. Lost circulation material will be added as necessary.

C. Minimum Blowout Control Specifications:

Double ram type or annular type 2000 psi working pressure BOP with a rotating head. See the attached exhibits (#1 through #3) for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

C. Cont.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

#### IV. Materials

##### A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
8-3/4"	120'	7"	20# K-55
6-1/4"	2400'	4-1/2"	10.5# K-55

##### B. Float Equipment:

a) Surface Casing: None

b) Production Casing: 4-1/2" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Five centralizers spaced every other joint above shoe and five turbolizers every other joint from the top.

#### V. Cementing:

Surface casing: 7" - Use 31 sx (37 cu. ft.) of Cl "B" with 2%  $\text{CaCl}_2$  (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 600 psi for 30 min.

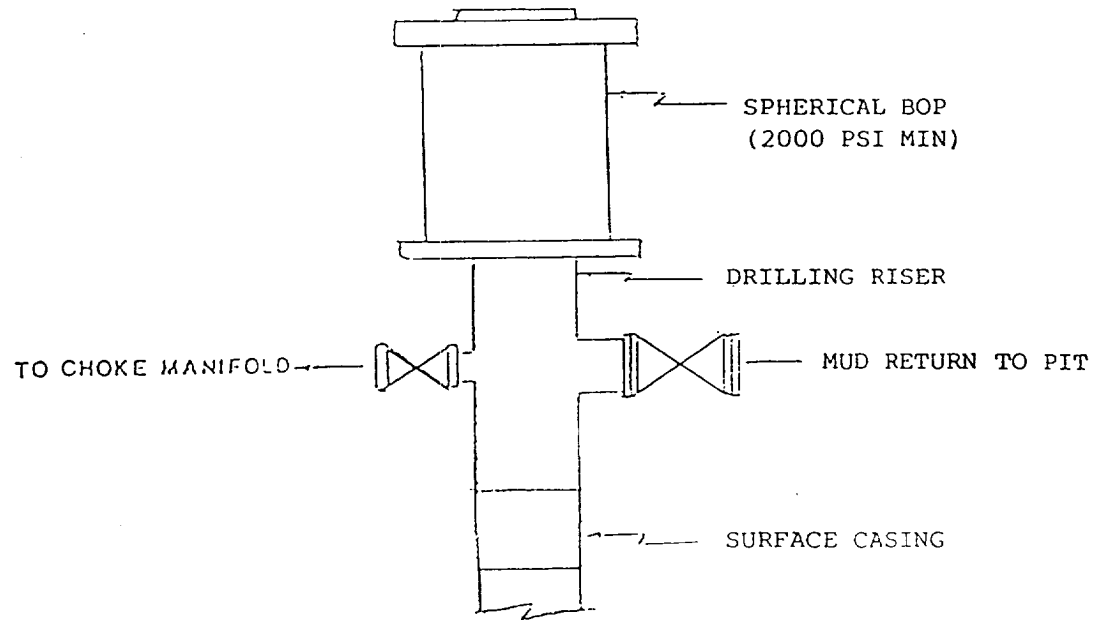
Production Casing: 4-1/2" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. Lead with 180 sx (372 cu.ft) of Cl "B" with 2% metasilicate. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 50 sx (59 cu.ft.) of Cl "B" with 2%  $\text{CaCl}_2$  (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG) Total cement volume is 431 cu.ft. (100% excess to circulate cement to surface).

  
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Paul C. Thompson, P.E.

SURFACE WELL CONTROL EQUIPMENT

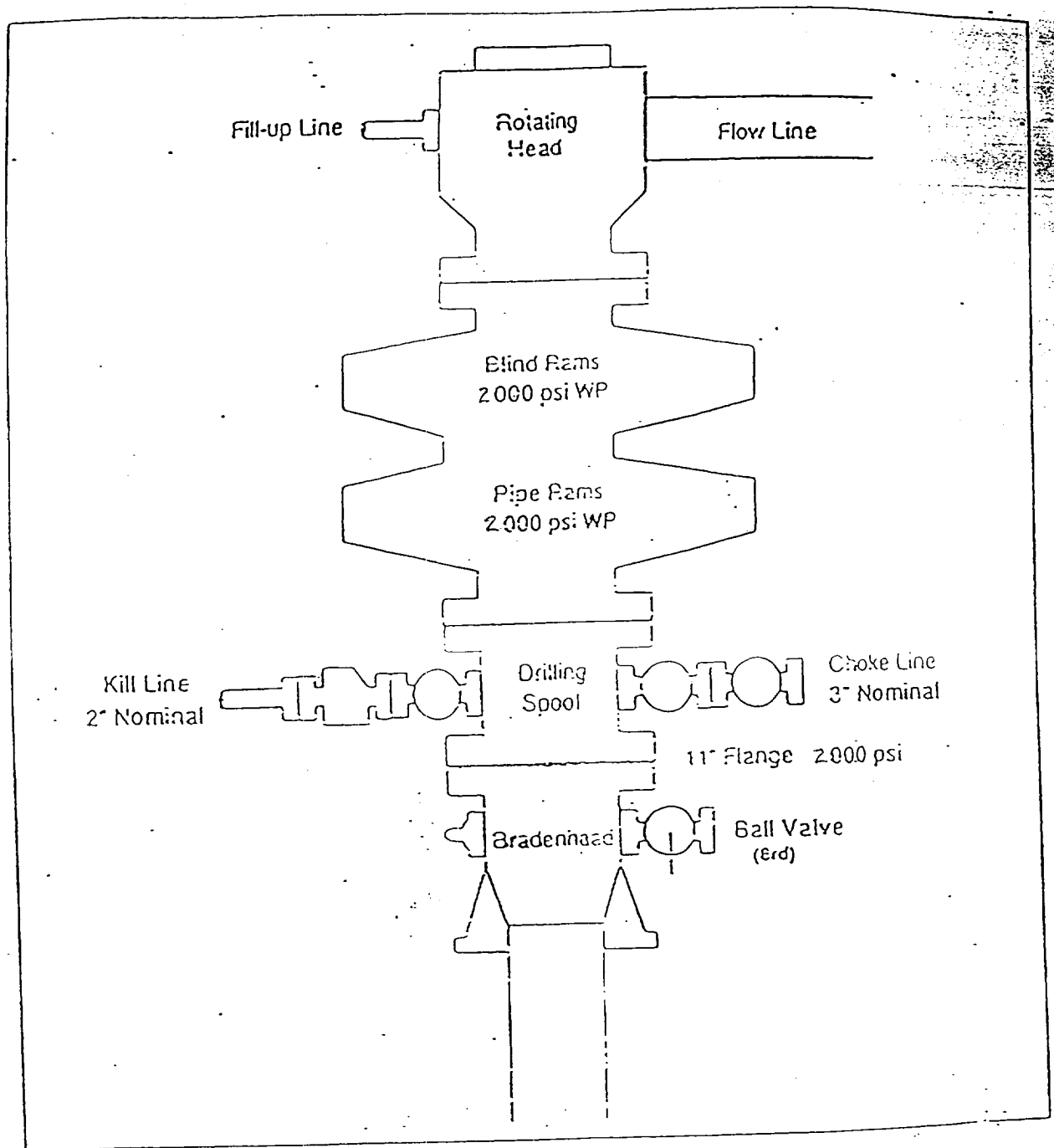
SCHEMATIC

EXHIBIT #1



# BOP STACK ARRANGEMENT

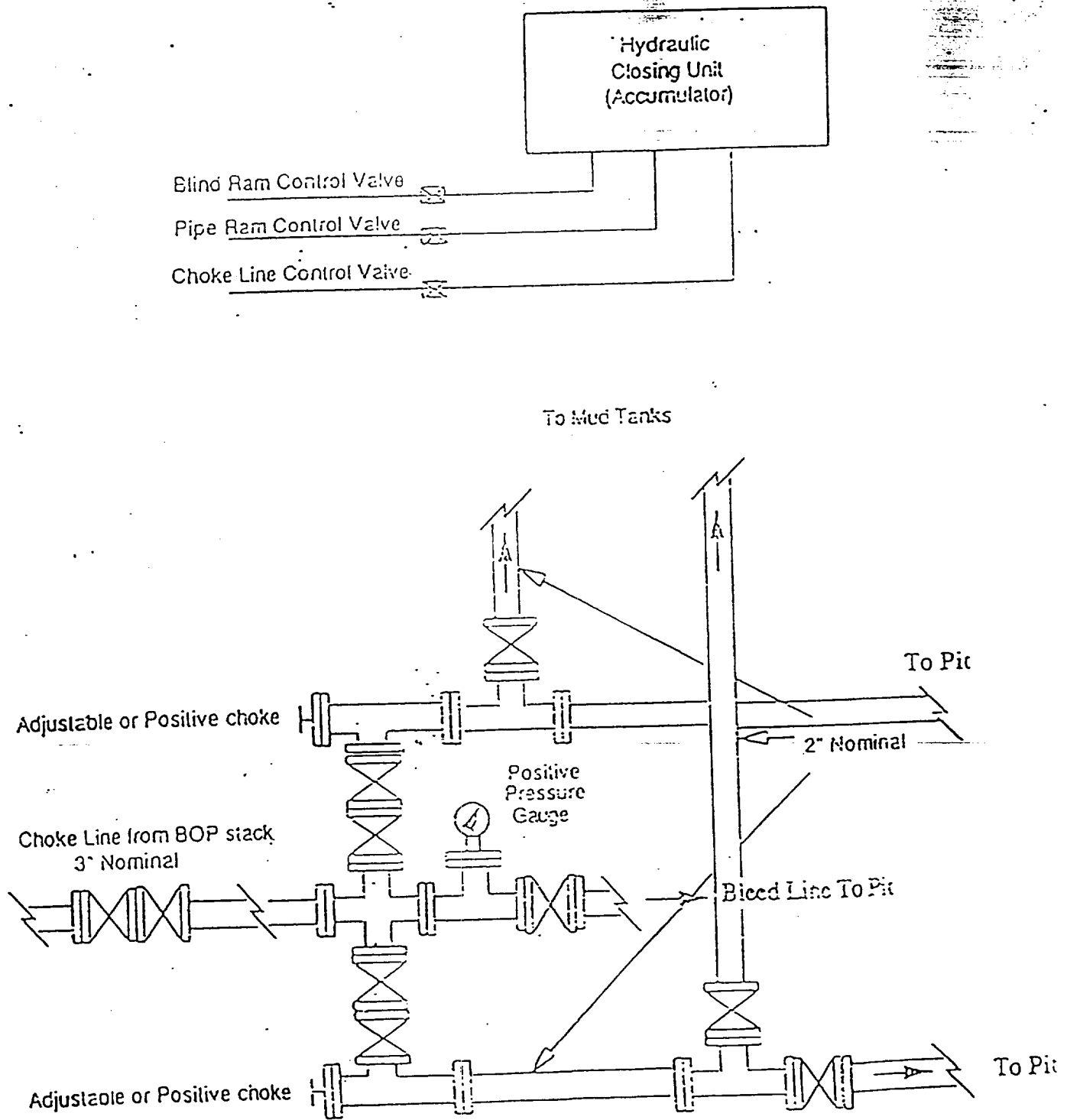
## EXHIBIT 2



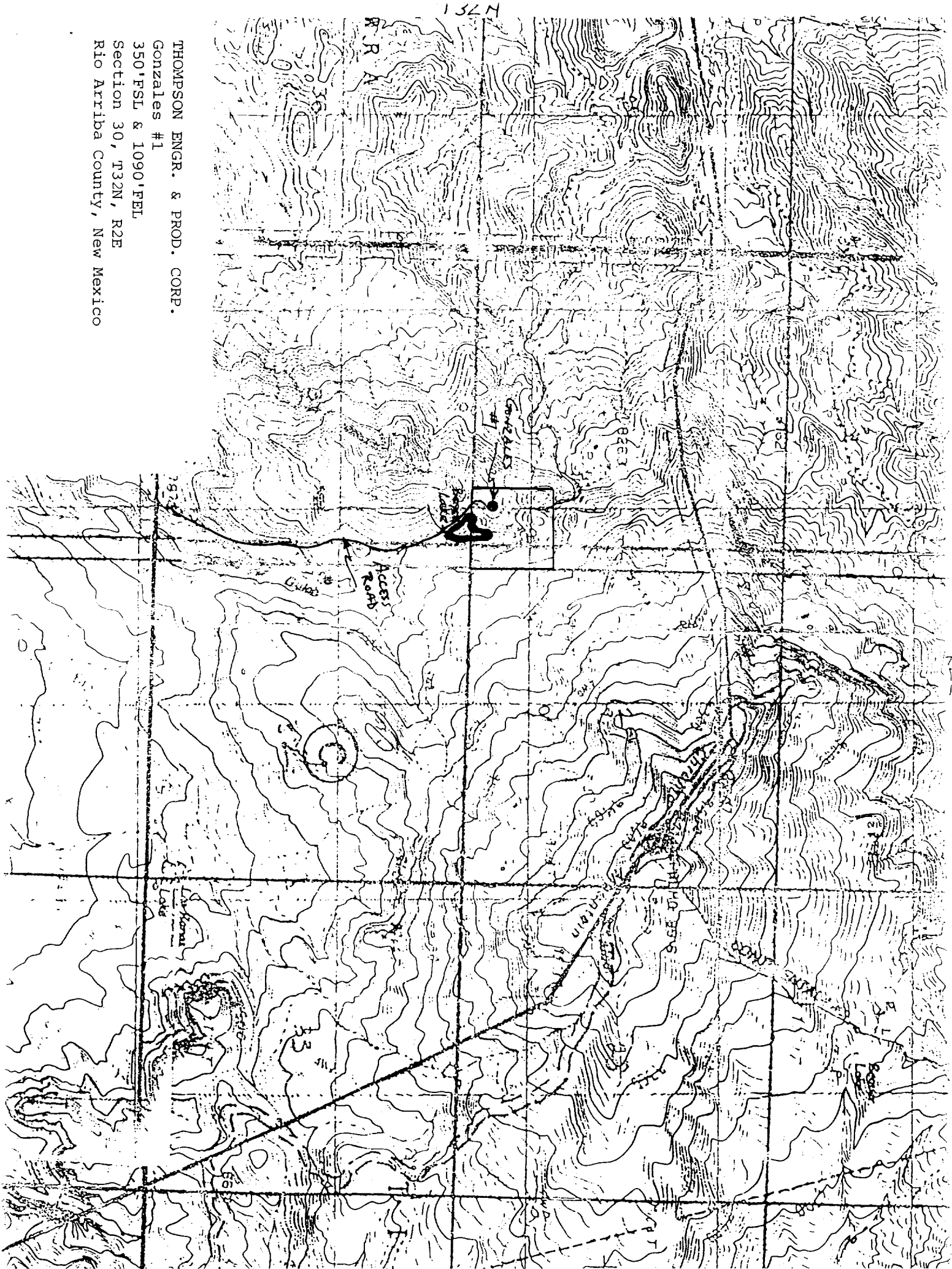
All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1500 psi. The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kill cock with handle, floor safety valve with change overs for each tool joint in the string, and choke manifold all rated to 2000 psi.

# Choke Manifold & Accumulator Schematic

EXHIBIT 3



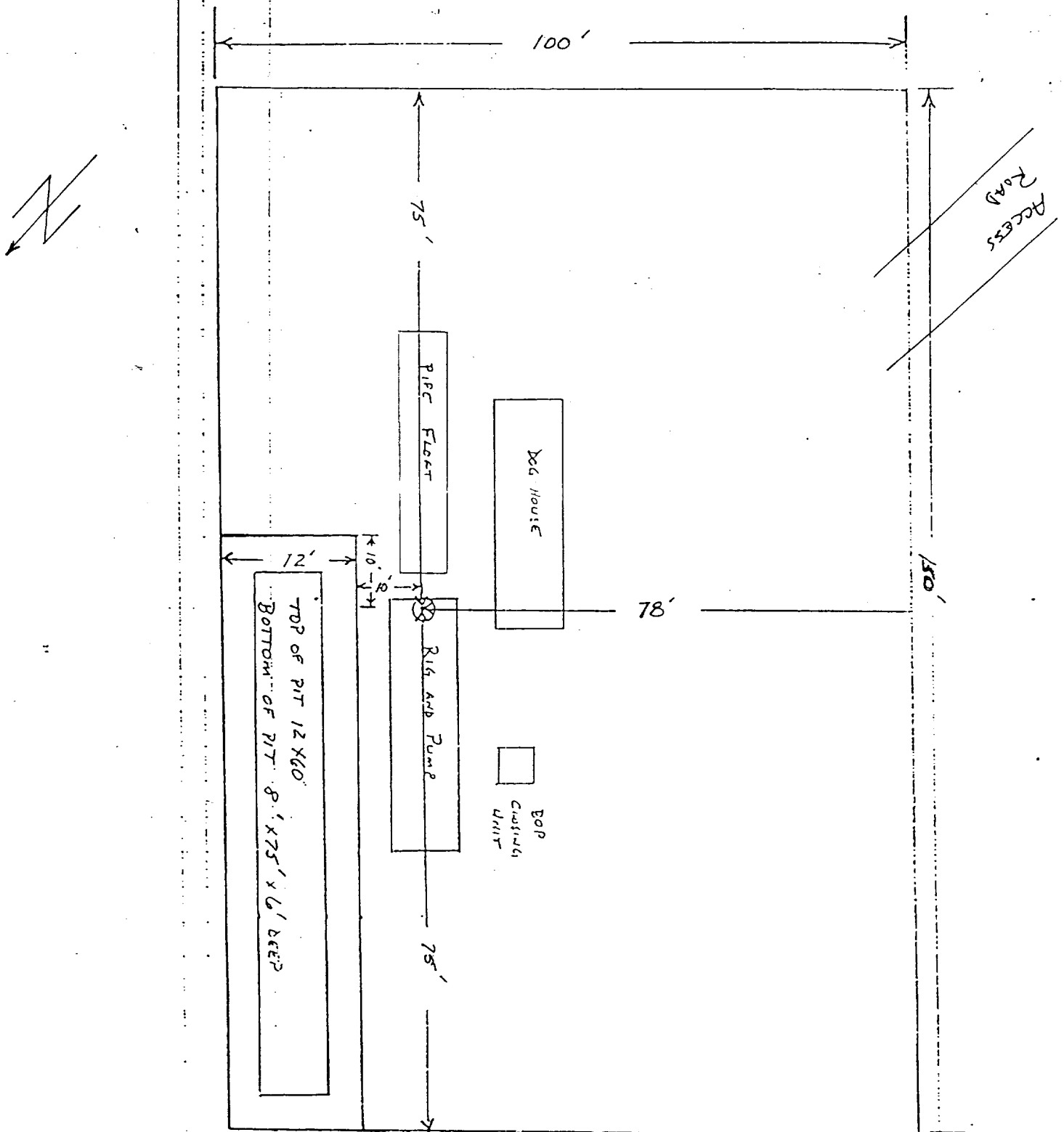
THOMPSON ENGR. & PROD. CORP.  
Gonzales #1  
350' FSL & 1090' FEL  
Section 30, T32N, R2E  
Rio Arriba County, New Mexico





PROPOSED RIG LAYOUT

PLAT NO. 3



Plat 1/12/93