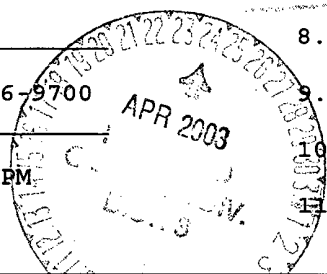


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

RECEIVED
2003 APR 17 PM 2:32

1. Type of Well
GAS
2. Name of Operator
BURLINGTON
RESOURCES OIL & GAS COMPANY LP
3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700
4. Location of Well, Footage, Sec., T, R, M
1785' FSL, 1670' FEL, Sec. 9, T-28-N, R-8-W, NMPM
5. Lease Number
NMSF-078499A
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
8. Well Name & Number
Hardie E #2C
9. API Well No.
30-045-30905
10. Field and Pool
Otero Cha/Blanco MV
11. County and State
San Juan Co, NM



12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

- ☒ Notice of Intent
- ☐ Subsequent Report
- ☐ Final Abandonment

Type of Action

- ☐ Abandonment
- ☐ Recompletion
- ☐ Plugging Back
- ☐ Casing Repair
- ☐ Altering Casing
- ☒ Other -
- ☒ Change of Plans
- ☐ New Construction
- ☐ Non-Routine Fracturing
- ☐ Water Shut off
- ☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to change the name of the subject well to the Hardie E #2C from the Hardie E #2B. Please reinstate our Application for Permit to Drill, Deepen or Plug Back. It is our intention to complete this well in the Chacra and Mesaverde formations only.

Attached are a new C-102 plat, Operations Plan, Blow out Preventer Diagram and Production facilities diagram for the Chacra and Mesaverde formations.

14. I hereby certify that the foregoing is true and correct.

Signed *Reggie Cole* (EG3) Title Regulatory Supervisor Date 4/15/03

(This space for Federal or State Office use)

APPROVED BY *John J. Lovato* Title _____ Date APR 22 2003

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCB

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-30905		2 Pool Code 72319/82329		3 Pool Name Blanco Mesaverde/Otero Chacra	
4 Property Code 7089		5 Property Name HARDIE E			6 Well Number 20
7 OGRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			9 Elevation 6383'

10 Surface Location

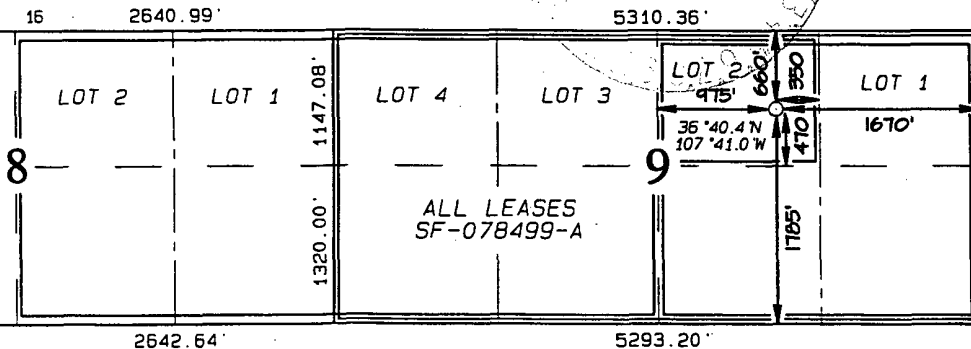
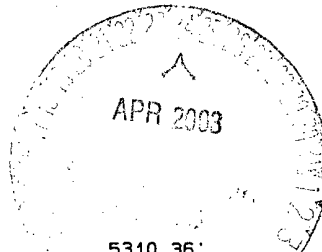
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	9	28N	8W		1785	SOUTH	1670	EAST	SAN JUAN

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 Cha-SE/148.59 MV-S/297.8				13 Joint or Infill		14 Consolidation Code		15 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



17 OPERATOR CERTIFICATION

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

Peggy Cole
Signature

Peggy Cole
Printed Name

Regulatory Supervisor
Title

4-15-08
Date

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.

JUNE 29, 2001

Date of Survey

Signature and Seal of Professional Surveyor



Certificate No. 6857

OPERATIONS PLAN

Well Name: Hardie E #2C
Location: 1785' FSL, 1670' FEL, Section 9, T-28-N, R-8-W
San Juan County, New Mexico
Latitude 36° 40.4, Longitude 107° 41.0
Formation: Otero Chacra/Blanco Mesa Verde
Elevation: 6383' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1875'	
Ojo Alamo	1875'	2015'	aquifer
Kirtland	2015'	2570'	
Fruitland	2570'	2865'	gas
Pictured Cliffs	2865'	3005'	gas
Lewis	3005'	3465'	gas
Intermediate TD	3255'		
Huerfanito Bentonite	3465'	3825'	gas
Chacra	3825'	4530'	gas
Massive Cliff House	4530'	4620'	gas
Menefee	4620'	5100'	gas
Point Lookout	5100'		gas
Total Depth	5500'		

Logging Program:

Mud logs - none
Coring - none
DST - none
Open hole - none
Cased hole - Gamma Ray, CCL, CBL - surface to TD

Mud Program:

<u>Interval- MD</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 120'	Spud	8.4-9.0	40-50	no control
120- 3255'	LSND	8.4-9.0	30-60	no control
3255- 5500'	Air/Mist/N2*	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

*Nitrogen might be used in conjunction with or instead of air to prevent a down hole fire.

Casing Program (as listed, the equivalent, or better):

<u>Hole Size</u>	<u>Measured Depth</u>	<u>Csg Size</u>	<u>Weight</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3255'	7"	20.0#	J-55
6 1/4"	3155' - 5500'	4 1/2"	10.5#	J-55

Tubing Program: 0' - 5500' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 32 sx Class A, B Portland Type I, II cement with 20% fly ash (38 cu.ft. of slurry, to circulate to surface). WOC 24 hours for preset holes or 8 hours for conventionally set holes before pressure testing or drilling out from under surface casing. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/398 sx Premium Lite cmt w/3% calcium chloride, and 0.25 pps Flocele, 5 pps LCM-1, 0.4% fluid loss, 0.4% SMS. Tail w/90 sx Type III cmt w/1% calcium chloride, 0.2% fluid loss and 0.25 pps Flocele (973 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 2015'. Two turbolating centralizers at the base of the Ojo Alamo at 2015'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -

Cement to circulate liner top. Pump 169 sx 35/65 poz L (Fly Ash L) Type III cement w/0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss 6% gel, 7 pps CSE (631 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while air/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Chacra and Mesa Verde formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal	300 psi
Pictured Cliffs	600 psi
Mesa Verde	700 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The southeast quarter of Section 9 is dedicated to the Chacra formation and the south half of Section 9 is dedicated to the Mesa Verde formation.
- This gas is dedicated.

Dakota Contingency Plan**Formation Tops:**

Mancos	5540'	6300'	gas
Gallup	6300'	7045'	gas
Greenhorn	7045'	7105'	gas
Graneros	7105'	7155'	gas
Dakota	7155'		gas
TD	7395'		

Mud Program:

<u>Interval- MD</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 120'	Spud	8.4-9.0	40-50	no control
120- 3105'	LSND	8.4-9.0	30-60	no control
3105- 7395'	Air/Mist/N2*	n/a	n/a	n/a

Casing Program (as listed, the equivalent, or better):

<u>Hole Size</u>	<u>Measured Depth</u>	<u>Csg Size</u>	<u>Weight</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3105'	7"	20.0#	J-55
6 1/4"	3005' - 7395'	4 1/2"	10.5#	J-55

Tubing Program: 0' - 7395' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 3000 psi minimum choke manifold (Reference Figure #2).

Completion Operations -

7 1/16" 3000 psi double gate BOP stack (Reference Figure #3). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

4 1/2" Production Casing -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Pump 295 sx 35/65 poz L (Fly Ash L) Type III cement w/0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss 6% gel, 7 pps CSE (584 cu.ft., 30% excess to cover overlap). WOC a minimum of 18 hrs prior to completing.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.
- The Mesa Verde and Dakota formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal	300 psi
Pictured Cliffs	600 psi
Mesa Verde	700 psi
Dakota	2500 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The southeast quarter of Section 9 is dedicated to the Chacra, the south half of Section 9 is dedicated to the Mesaverde and all of Section 9 is dedicated to the Dakota formation of this well.
- This gas is dedicated.

Eric J. Giles
Drilling Engineer

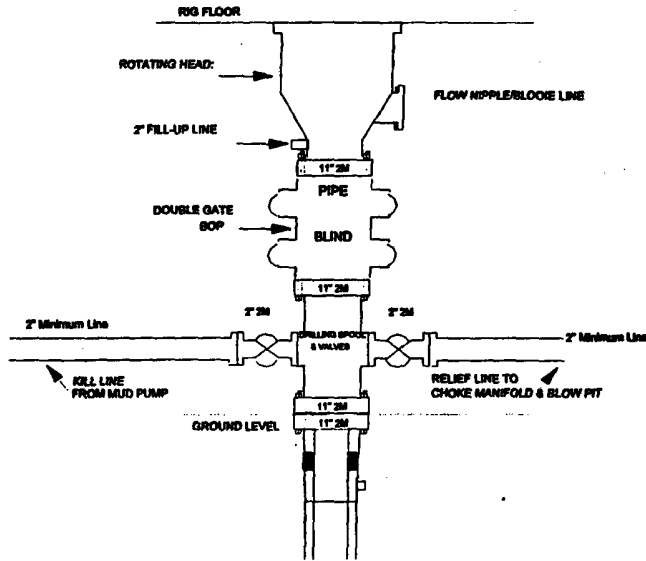
Date

4/16/03

BURLINGTON RESOURCES

Burlington Resources

Drilling Rig 2000 psi System

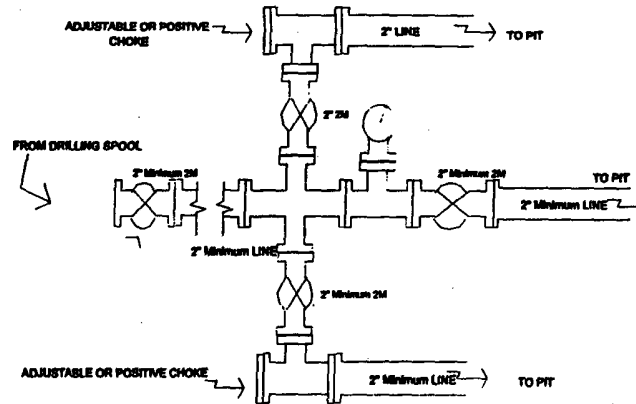


BOP installation from Surface Casing Point to Total Depth. 11\"/>

Figure #1

4-20-01

Drilling Rig Choke Manifold Configuration 2000 psi System

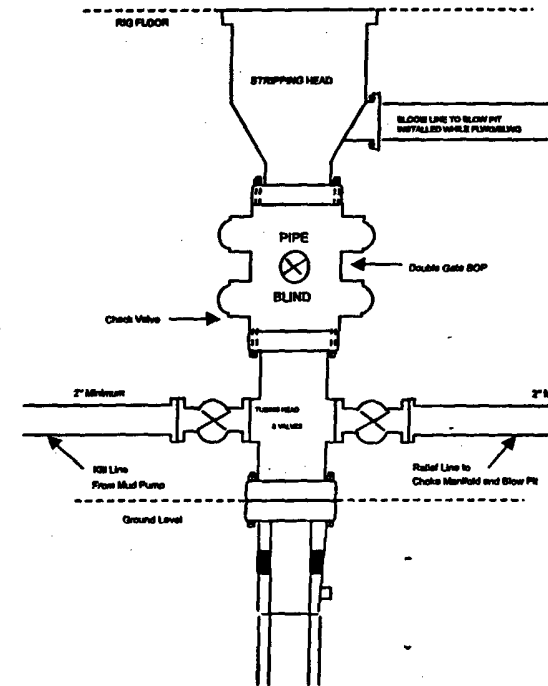


Choke manifold installation from Surface Casing Point to Total Depth. 2,000psi working pressure equipment with two chokes.

Figure #3

BURLINGTON RESOURCES

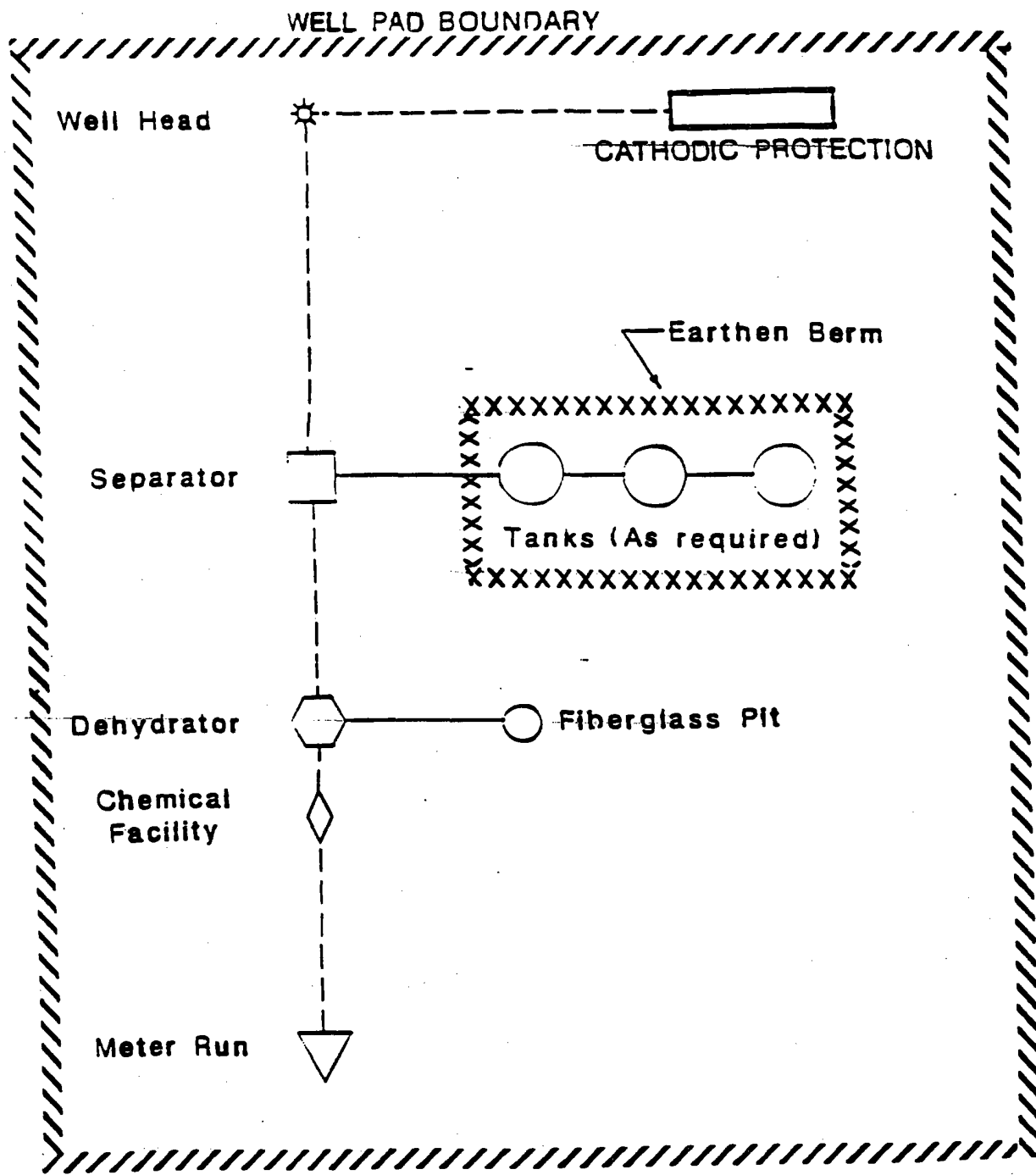
Completion/Workover Rig BOP Configuration 2,000 psi System



Minimum BOP installation for all Completion/Workover Operations. 7-1/16\"/>

Figure #2

4-20-01



PLAT #1

**ANTICIPATED
PRODUCTION FACILITIES
FOR A
MESA VERDE WELL**