

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROW/APD

FORM APPROVED
Budget Bureau No. 1004-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. Type of Work

DRILL ☒DEEPEN ☐

b. Type of Well

Oil Well ☐Gas Well ☒Other ☐Single Well ☒Multiple Zone ☐

2. Name of Operator

Williams Production Company

3. Address and Telephone No.

P.O. Box 3102, MS 37-2, Tulsa, OK. 74101

4. Location of Well (Footages)

At Surface

1964' FNL 1960' FEL, SWNE

or proposed prod. zone

14. Distance in Miles and Directions from Nearest Town or Post Office

Approximately 17.0 miles northeast of Navajo Dam Post Office (straight line)

15. Distance from Proposed Location to Nearest

Property or Lease Line, Ft 1960'

16. No. of Acres in Lease

2561.86. acres

17. No. of Acres Assigned to This Well

320 acres, E/2

18. Distance from Proposed Location to Nearest Well Drilling, Completed, or Applied for, on this Lease, FT

1000'

19. Proposed Depth

3160' KB —

20. Rotary or Cable Tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc)

6378' GR —

22. Approximate Date Work will Start

April 1, 2000

5. Lease Designation and Serial No.
SF-078772

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
Rosa Unit

8. Well Name and No.

Rosa Unit Com #355

9. API Well No.

30-045-30192

10. Field and Pool, or Exploratory Area
Basin Fruitland Coal —11. Sec., T., R., M., or BLK.
and Survey or Area

Section 33, T32N, R6W

12. County or Parish
San Juan—13. State
NM

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE & GRADE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	500'	180 sx-157 cu ft Class B
8-3/4"	7"	20#	2875'	335 sx-705 cu ft Class B 130 sx-226 Cu ft-Class BI
6-1/4"	5-1/2"	15.5#	2775' - 3160'—	Open hole completion, no cement

Williams Exploration & Production proposes to drill a vertical well to develop the Basin Fruitland Coal Formation in the described location above, and in accordance with the attached Operation and Surface Use plans. The surface is under the jurisdiction of the Bureau of Land Management, Farmington Field Office. Moore Anthropological Research of Aztec, NM has surveyed the proposed location for Cultural Resources, and the report has been submitted to the BLM-FFO for review.

This APD also is serving as an application to obtain an on-lease right-of-way from the BLM for the pipeline tie. This well would utilize an existing access road for the Rosa Unit Well #90A and would not require a new access road (see Pipeline & Well Plats #3 and #4). The proposed 180-foot long pipeline would tie into Williams Gathering System on the Rosa Unit Well #90A (see the attached Pipeline Plat Map # 4).

This application is subject to the BLM-FFO and APD 3103.3 and APD 3103.4.

DRILLING AND CEMENTING ARE SUBJECT TO ALL APD 3103.3 "GENERAL REQUIREMENTS"

APD 3103.3 and APD 3103.4. If proposal to deepen, give present productive zone and proposed new productive zone.

Signed

Steve Nelson

Title Agent

COPIES: BLM+4, WELL FILE+1
Date March 20, 2000

(This space for Federal or State office use)

Permit No.

Approval Date

Application approval does not warrant or certify that applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any:

APPROVED BY:

J.L.

NACOL

DATE

7-14-00

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION 2: TO DRILL" for permit for such proposals

5. Lease Designation and Serial No.
SF-078772

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well
Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
WILLIAMS PRODUCTION COMPANY

3. Address and Telephone No.
PO BOX 3102 MS 37-2, TULSA, OK 74101 (918) 573-6254

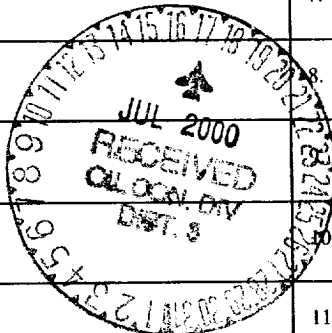
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1964' FNL 1960' FEL SW/4 NE/4 SEC 33-T32N-R6W

Well Name and No.
ROSA UNIT COM #355

API Well No.

Field and Pool, or Exploratory Area
BASIN FRUITLAND COAL

11. County or Parish, State
RIO ARRIBA, NM



CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR 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
Dispose Water
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Williams Production Company proposes to change the formation tops as follows: Ojo Alamo – 2285', Kirtland – 2420', Fruitland – 2920', Base of Coal – 3100', Total Depth – 3110'. Due to these changes, Williams also proposes to change the surface cementing as follows: 260 sx (314 cu.ft.) of class "B" with 3% CaCl₂ and ¼# of cello-flake/sk (Yield = 1.19 cu.ft./sk, Weight = 15.6 #/gal). Use 100% excess to circulate the surface. WOC 12 hours. Test to 1500#

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

Signed Tracy Ross
TRACY ROSS

Title Production Analyst Date April 25, 2000

(This space for Federal or State office use)

Approved by /s/ Jim Lovato

Title _____

Date JUL 14 2000

Conditions of approval, if any:

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

NMOCD

District I
100 Box 1700, Hobbs, NM 88241-1700
District II
111 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

070 FARMINGTON, NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

AP# Number 30045-30192		Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 17033	Property Name ROSA UNIT		Well Number 355
OGRID No. 120782	Operator Name WILLIAMS PRODUCTION COMPANY		Elevation 6378'

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
G	33	32N	6W		1964'	NORTH	1960'	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	13 Joint or Infill	14 Consolidation Code	15 Order No.
320 - E/2	J	U	

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 2620.20' N00°19'E 2652.54' N00°45'E	S88°47'W	1964' 1960' 5348.64' N00°13'W	5329.50'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Steve Nelson Printed Name Agent, Nelson Consulting Title March 20, 2000 Date
	Section 33			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. 08/24/99 Date of Survey Signature and Seal of Professional Surveyer: HENRY P. BROADHURST NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR Certificate Number 1393
N89°57'W	2630.76'	S89°13'W	2763.42'	

SH

Rosa #355
Drilling Prognosis
Page #2

3. PRODUCTION LINER: 5-1/2" liner with notched collar on bottom.

C. CEMENTING:

1. SURFACE: Use 130 sx (157 cu.ft.) of class "B" with 3% CaCl₂ and 1/4# of cello-flake/sk (Yield = 1.19 cu.ft./sk, Weight = 15.6 #/gal.). Use 100% excess to circulate the surface. WOC 12 hours. Test to 1500#.

2. INTERMEDIATE: Lead - 335 sx (705 cu.ft.) of class "B" 65/35 poz with 10% gel and 1/4# cello-flake/sk (Yield = 2.1 cu.ft./sk, Weight = 12.1 #/gal.). Tail - 130 sx (226 cu.ft.) of class "B" with 4% gel, 1/4# cello-flake/sk, 0.5% FL-25 and 2% CaCl₂ (Yield = 1.74 cu.ft./sk, Weight = 13.5 #/gal.). Use 100 excess in lead and 75% excess in tail to circulate to surface. Total volume = 931 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated. Test to 1500#.

3. PRODUCTION LINER: Open hole completion. No cement.

IV COMPLETION

A. PRESSURE TEST

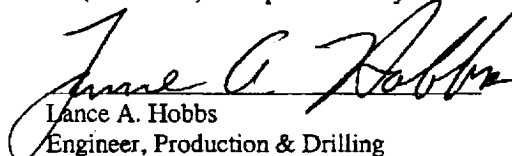
Pressure test 7" casing to 3300# for 15 minutes.

B. STIMULATION

Cavitate Well with reciprocation and rotation. Surge wells with water and air and then flow back to pit. Cavitate for 2 to 3 weeks. Maximum pressure not expected to exceed 2,000 psi.

C. RUNNING TUBING

1. Fruitland Coal: Run 2-7/8", 6.5#, J-55, EUE tubing with a SN (1.375" ID) on top of bottom joint. Land tubing approximately 50' above TD.


Lance A. Hobbs
Engineer, Production & Drilling

file:355Rosa

WILLIAMS PRODUCTION Co.

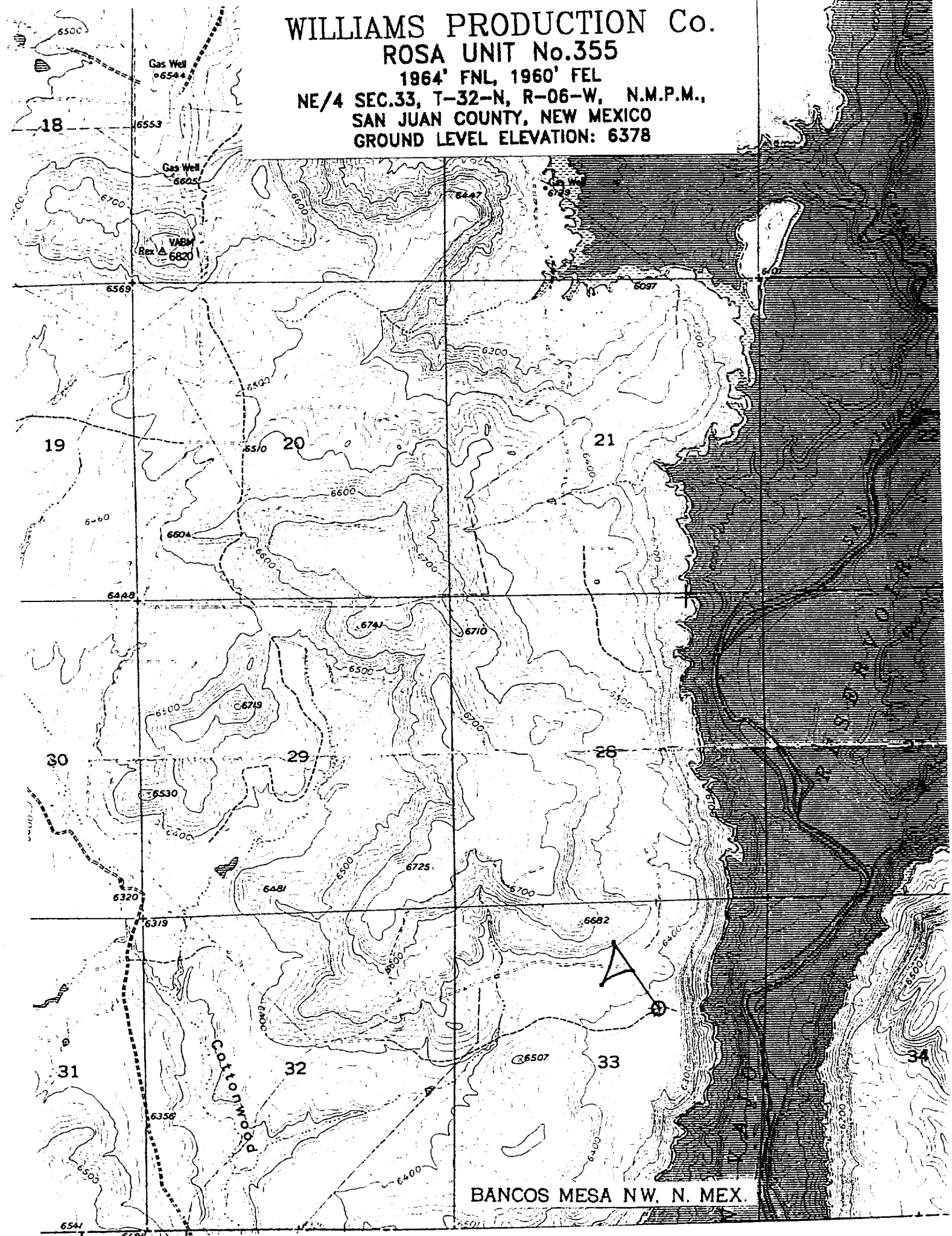
ROSA UNIT No.355

1964' FNL, 1960' FEL

NE/4 SEC.33, T-32-N, R-06-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

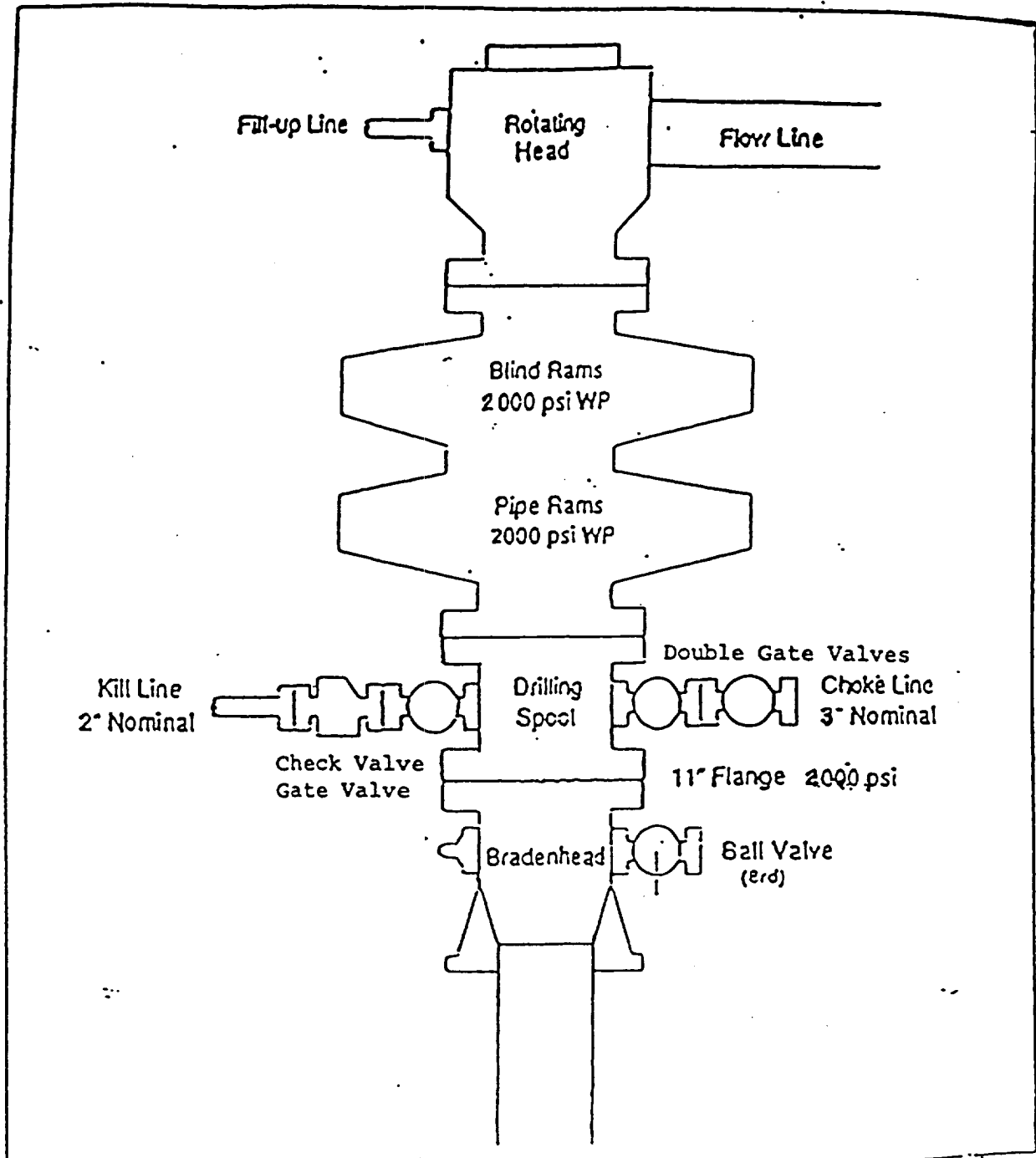
GROUND LEVEL ELEVATION: 6378



BANCOS MESA NW, N. MEX.

EXHIBIT 1

BOP STACK ARRANGEMENT



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 kelly cock with handle, floor safety valve with change overs for each tool joint in the string, and choke manifold all rated to 2000 psi.