

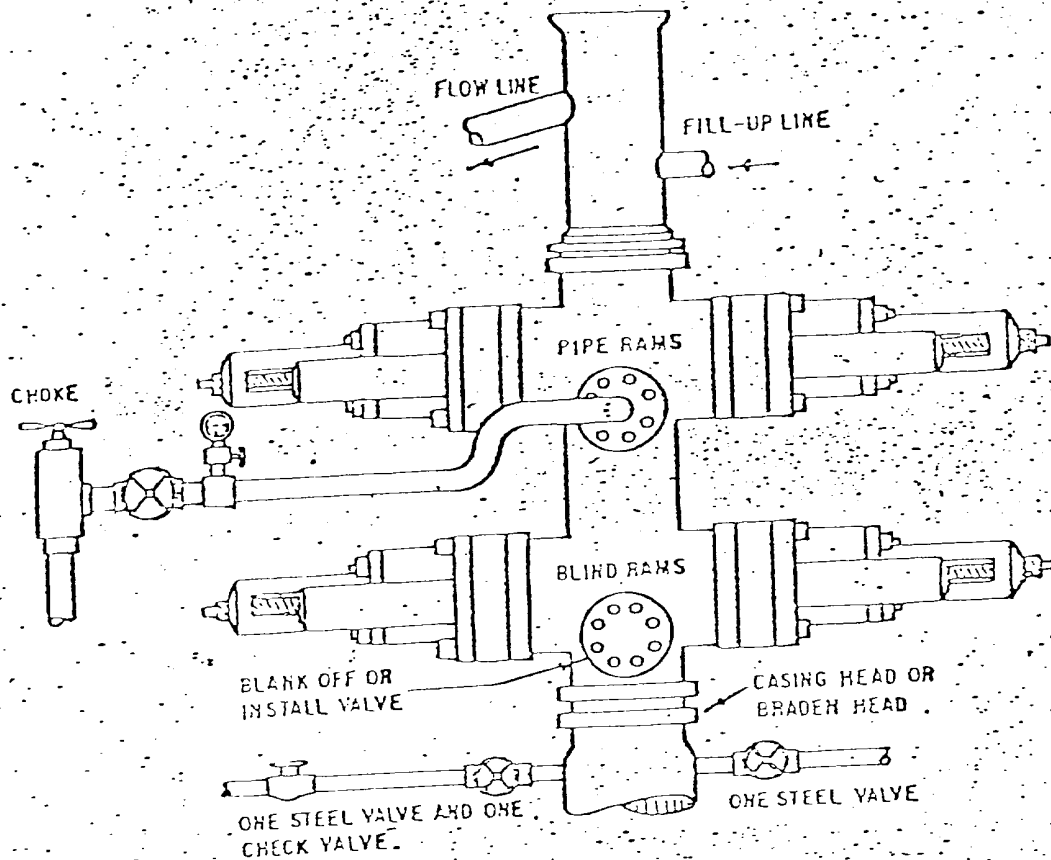
TEN POINT PROGRAM

Bass Navajo 20-1
Section 20, T-28-N, R-19-W
San Juan County, New Mexico

1. Will be spudded in the Mancos Formation.
2. Estimated tops of formations to be encountered: Todilto-1290', Entrada-1305', Chinle-1800', DeChelly-2960', Organ Rock-3605', Supai Evaporites-4060', Hermosa-4905', Akah-5405', M-3 Shale-5500', M-2 Shale-5560', First Barker Creek-5585', Second Barker Creek-5635', Third Barker Creek-5695'.
3. The estimated depths at which anticipated water, oil or gas may be encountered are: Barker Creek intervals - 5585 to 5800, and Organ Rock - 3605' (helium).
4. Casing design:

<u>HOLE SIZE</u>	<u>DEPTH</u>	<u>CSG. SIZE</u>	<u>WT.</u>	<u>GRADE</u>
17-1/2"	120	13-3/8"	48	14-40
12-1/4"	1250	8-5/8"	24	J-55
7-7/8"	5800	5-1/2"	14	K-55

5. Attached is a schematic diagram of the Series 900 pressure control equipment to be used on subject well. Pressure test on installation, and operate daily while drilling.
6. Circulation medium will be water and gel-chem mud, about 9.5 weight, 30-45 viscosity, 7-10 water loss. Sufficient mud materials to maintain daily mud requirements, and to handle minor loss circulation and blowout problems shall be maintained at the well site.
7. A full opening valve to fit the drill string will be on the floor at all times, Kelly cocks will be installed in the kelly. Floats at the bit will not be used, and monitoring of the mud system will be visual unless otherwise specified.
8. Logging program will consist of open hole electrical and radioactive logs for resistivity, porosity, and correlation determinations. Drill stem testing will be conducted if warranted. Anticipate one core in the Barker Creek.
9. There are no anticipated abnormal pressures, temperatures or other potential hazards including H₂S.
10. The anticipated starting date is June 15, 1978, and the expected duration of operations is from 60 to 90 days.



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. ONE DOUBLE GATE BLOWOUT PREVENTER WITH LOWER RAMS BLIND AND UPPER RAMS FOR PIPE, ALL HYDRAULICALLY CONTROLLED. OPENING ON PREVENTERS BETWEEN RAMS.
- B. OPENING TO BE FLANGED, STUDDED OR CLAMPED AND AT LEAST TWO INCHES DIAMETER.
- C. ALL CONNECTIONS FROM OPERATING HANDFOLD TO PREVENTERS TO BE ALL STEEL HOSE OR TUBE A MINIMUM OF ONE INCH IN DIAMETER.
- D. THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE PREVENTERS.
- E. ALL CONNECTIONS TO AND FROM PREVENTERS TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.
- F. MANUAL CONTROLS TO BE INSTALLED BEFORE DRILLING CEMENT PLUG.
- G. VALVE TO CONTROL FLOW THROUGH DRILL PIPE TO BE LOCATED ON HIS FLOOR.
- H. CHOKE MAY BE EITHER POSITIVE OR ADJUSTABLE.
A choke spool may be used between preventers.

BEPCO II

HYDRAULIC DUAL BLOWOUT PREVENTER

MULTI-POINT SURFACE USE PLAN

Bass Navajo 20-1
SE Section 20, T-28-N, R-19-W
Navajo Tribal
N00-C-14-20-2976
San Juan County, New Mexico

1. EXISTING ROADS

The location of the proposed well site is shown on the attached topographic map and certified surveyor's plat, see figures 1 & 11. The route to the well site is shown in red.

To reach the proposed well site Bass Navajo 20-1 from Ship Rock, New Mexico, leave town going south on highway 666 for a distance of approximately 6.2 miles, turn west on Indian highway #13 for a distance of 8.6 miles. Exit on a graded road in a southwesterly direction for a distance of about 6.5 miles. The proposed location adjoins the above dirt road on the east side. The graded road will be maintained by Bass Enterprises Production Co. to its location.

2. PLANNED ACCESS ROAD

No reconstruction or changes in the existing road, colored in red, is contemplated for the exploratory drilling phase. If production is found, the road will be improved in accordance with the guidelines outlined in the Oil and Gas Surface Operating Standards as prepared by the U. S. Department of the Interior.

3. LOCATION OF EXISTING WELLS

The location of wells drilled in the vicinity of the proposed well-site are shown on Figure 111. The status of all these exploratory wells is reported to be abandoned.

Water wells are reported to be located to the south of the proposed location, as shown on Figure 11.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Bass Enterprises Production Company operates no production equipment within one (1) mile of the proposed well site. If oil production is found, a tank battery (Figure IV) will be placed on the lease along side of the existing graded road as shown on the attached topographic map (Figure 11). The area to be used will be leveled with a dozer, and where tanks and other production facilities are installed, crushed rock will be placed. It is anticipated that at this location other producing wells would be connected when found productive.

In the event of production, it is proposed to bury the flowlines and restore the well pad area, except for the area needed for installation of production facilities. All areas containing pits and permanent production facilities will be adequately fenced to protect livestock and wildlife. These areas will be rehabilitated as outlined in Section 10 below.

5. LOCATION AND TYPE OF WATER SUPPLY

Water for the drilling and completing of this well will be transported by truck or a temporary pipeline on the surface, depending on the time of year that well is drilled, from the Big Gap Reservoir, which is located about two (2) miles to the east from the proposed well site.

6. SOURCE OF CONSTRUCTION MATERIAL

Fill material needed to construct and level the location and access road will be locally derived from cuts at the site and will be on Federal lands.

7. METHODS FOR HANDLING WATER DISPOSAL

Cuttings and drilling fluids will be contained in an unlined reserve pit as shown on the attached location layout diagram. A tank will be set on the location for any produced fluids.

Human waste will be disposed by drilling rat holes to ten (10) feet in depth and covered when operations are completed.

Garbage and other waste material will be burned in a 25' X 10' (6' deep) burning pit. The pit will be covered with a small mesh wire to prevent wind scattering, and upon completion of operations, will be buried.

The well site will be properly cleaned up when the rig moves out and restored in accordance with Section 10 below.

8. ANCILLARY FACILITIES

No ancillary facilities will be constructed.

9. WELL SITE LAYOUT

Attached is a copy of the well site layout plan (Figure V) with grade elevations noted. The plan for the placement of drilling equipment (Figure VI) is attached herewith. The tool pusher's house trailer and parking area will be located on the southerly end of the location. Soil material stock piles, if required, will be placed on the west and east sides of the location (see Figure V).

The reserve pit will not be lined, and the burning pit will be located to the best advantage.

10. PLANS FOR RESTORATION OF SURFACE

Upon completion of operations, the surface where changed topographically will be recontoured and rehabilitated in accordance with the guidelines outlined in the Oil and Gas Surface Operating Standards as prepared by the U. S. Department of the Interior, Bureau of Land Management and Geological Survey. Any area needed for production facilities and for the use by workover rigs will not be recontoured until final abandonment of the well bore. The pits will be filled in and covered with at least two (2) feet of cover material. All temporary structures will be removed and the permanent facilities, if any, will be painted the color chosen by the Bureau of Indian Affairs. All areas not needed for production purposes will be reseeded in the fall with seed mixtures selected by the Bureau of Indian Affairs.

Prior to cleanup and restoration, the pits will be fenced; if any oil accumulates on the pits it will be removed.

It is contemplated to start construction early June, followed by drilling operations in mid-June of 1978. If the well is abandoned, operations should be completed within 90 days from the start of construction. Rehabilitation operations should start in due course following the removal of the drilling equipment.

11. OTHER INFORMATION

The location is on a low relief topographical surface area that dips to the northeast. The area is broken by shallow draws and the top soil for the most part is clay with some sands and conglomerates. Vegetation is principally sagebrush and scattered clumps of grass. No wildlife was observed at the location, but undoubtedly rabbits, coyotes, birds and other small mammals can be found from time to time.

There is no evidence that the surface in the area is being used other than for grazing of livestock. The surface rights are held by the Navajo Tribe of Indians.

There is no known source of surface water, occupied dwellings, archaeological, historical, or cultural sites in the immediate vicinity of this location. The site will be examined by a qualified archaeologist (Culture Resources Management Program) whose report will be filed accordingly when received.

12. OPERATOR'S REPRESENTATIVE

Gene L. Gaz
Bass Enterprises Production Company
P. O. Box 2131
Denver, Colorado 80201
Telephone: (303) 571-1314

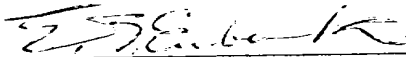
13. CERTIFICATION

See attached certification

CERTIFICATION
by
OPERATOR'S FIELD REPRESENTATIVE

I HEREBY certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Bass Enterprises Production Co. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

April 19, 1978
Date



E. B. Eubanks
Manager of Acquisitions
BASS ENTERPRISES PRODUCTION CO.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

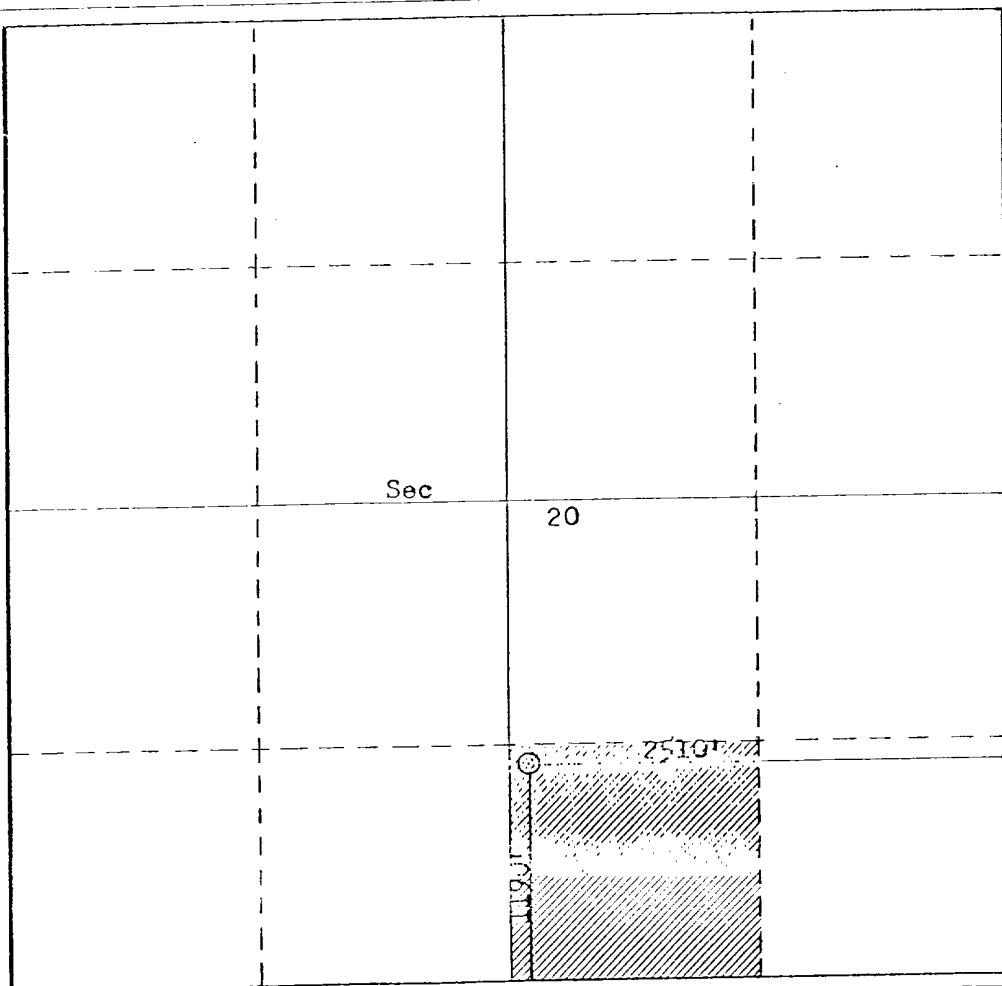
Operator BASS ENTERPRISES PRODUCTION COMPANY			Lease Navajo NOO-C-14-20-2976		Well No. 20-1
Unit Letter 0	Section 20	Township 27N	Range 19W	County San Juan	
Actual Footage Location of Well:					
1190		feet from the South	line and 2510	feet from the East	line
Ground Level Elev. 5711	Producing Formation Barker Creek		Pool Wildcat	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

E. B. Eubanks

Name

E. B. Eubanks

Position

Pet. Engineer

Company

Bass Ent. Prod. Co.

Date

April 20, 1978

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 knowledge and belief.

Date Surveyed
April 1978

Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr, Jr.
Fred B. Kerr, Jr.

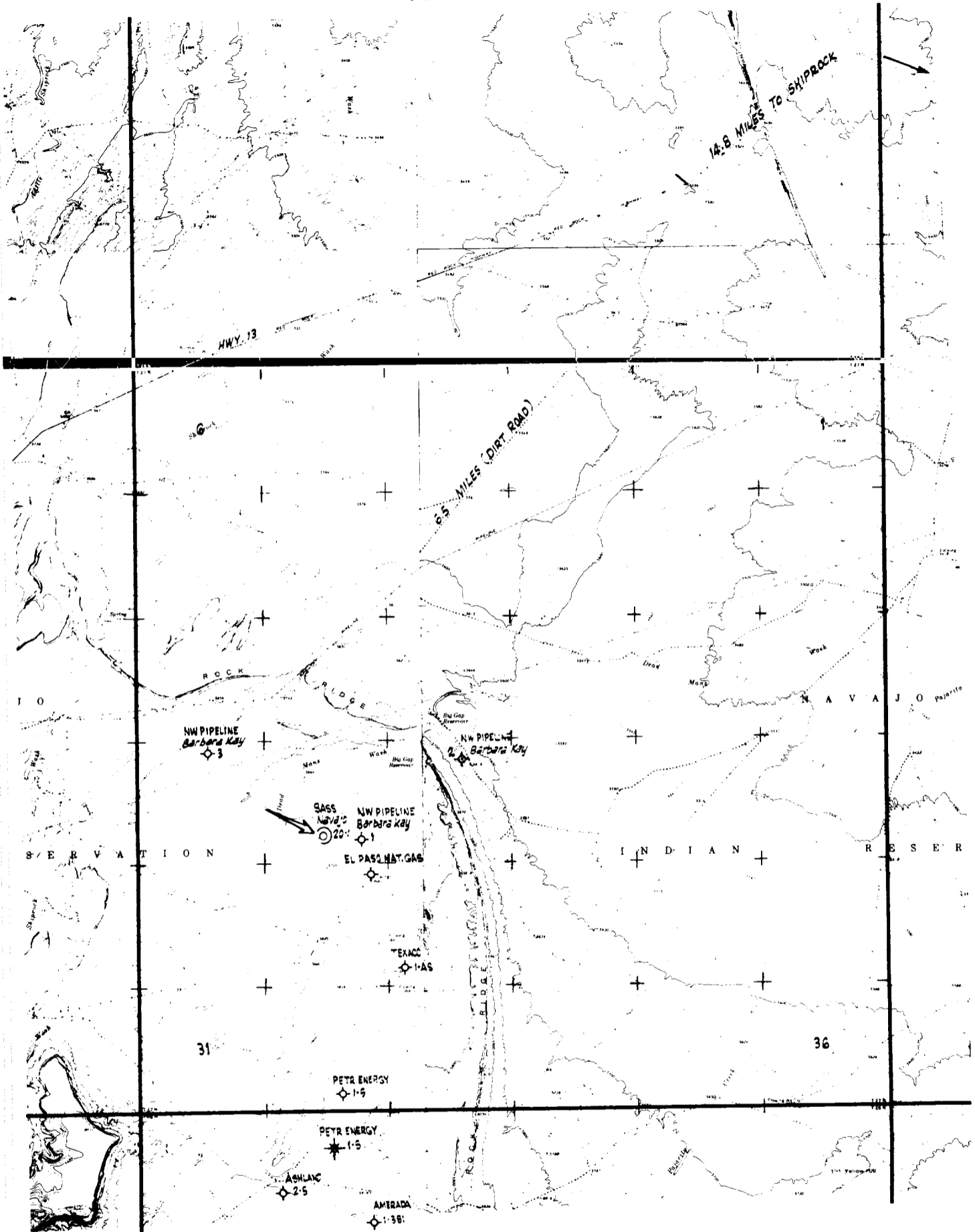
Certificate No. **ERR, JR.**

3950

R 19 W

T 28 N

T 27 N



BASS ENT. PROD. CO.

SAN JUAN CO., NEW MEXICO

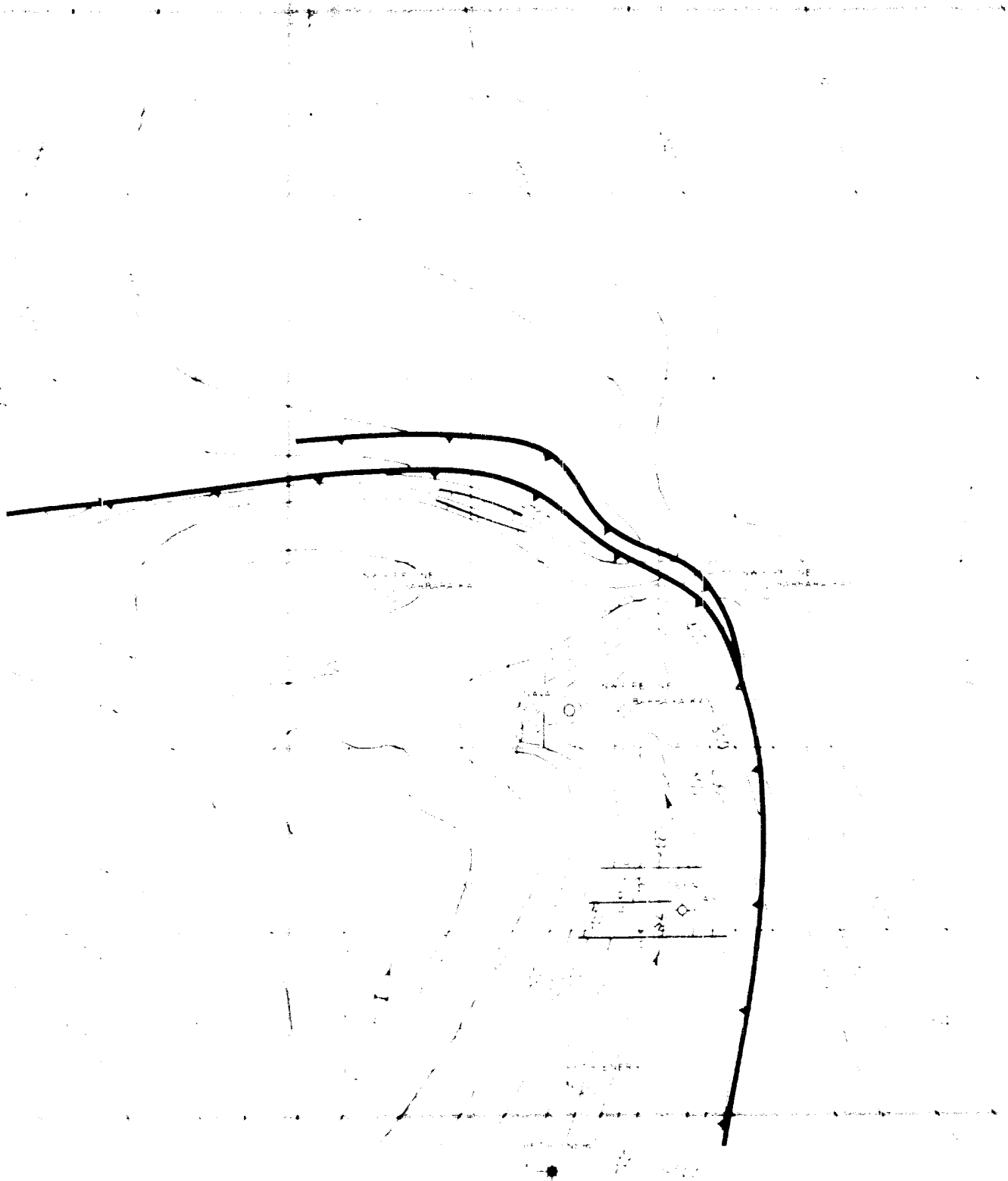
PLAT SHOWING
WELL LOC. & ROADS

FIGURE II

R 20 W

R 19 W

T
27
N



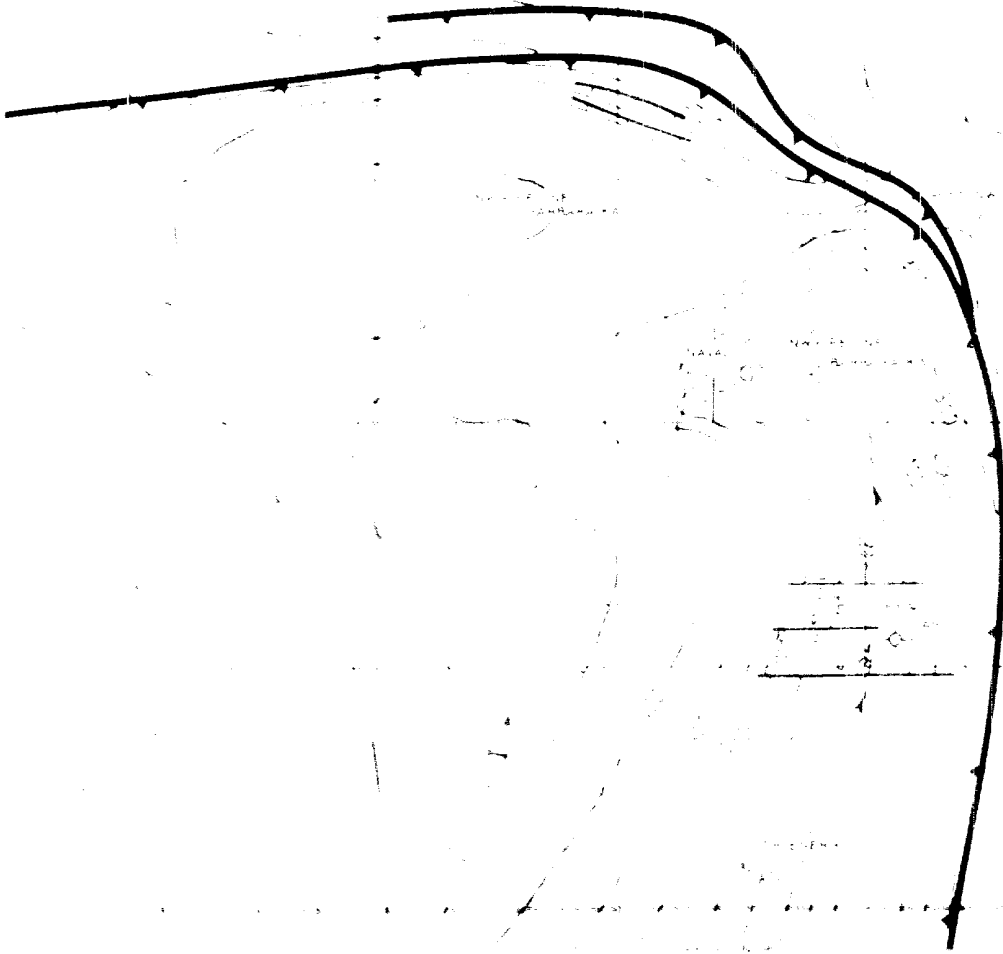
BASH ENTERPRISES PROFILE
BEAUTIFUL MTN
STRUCTURE TOP MISSISSIPPIAN

FIGURE III

R 20 W

R 19 W

T
27
N



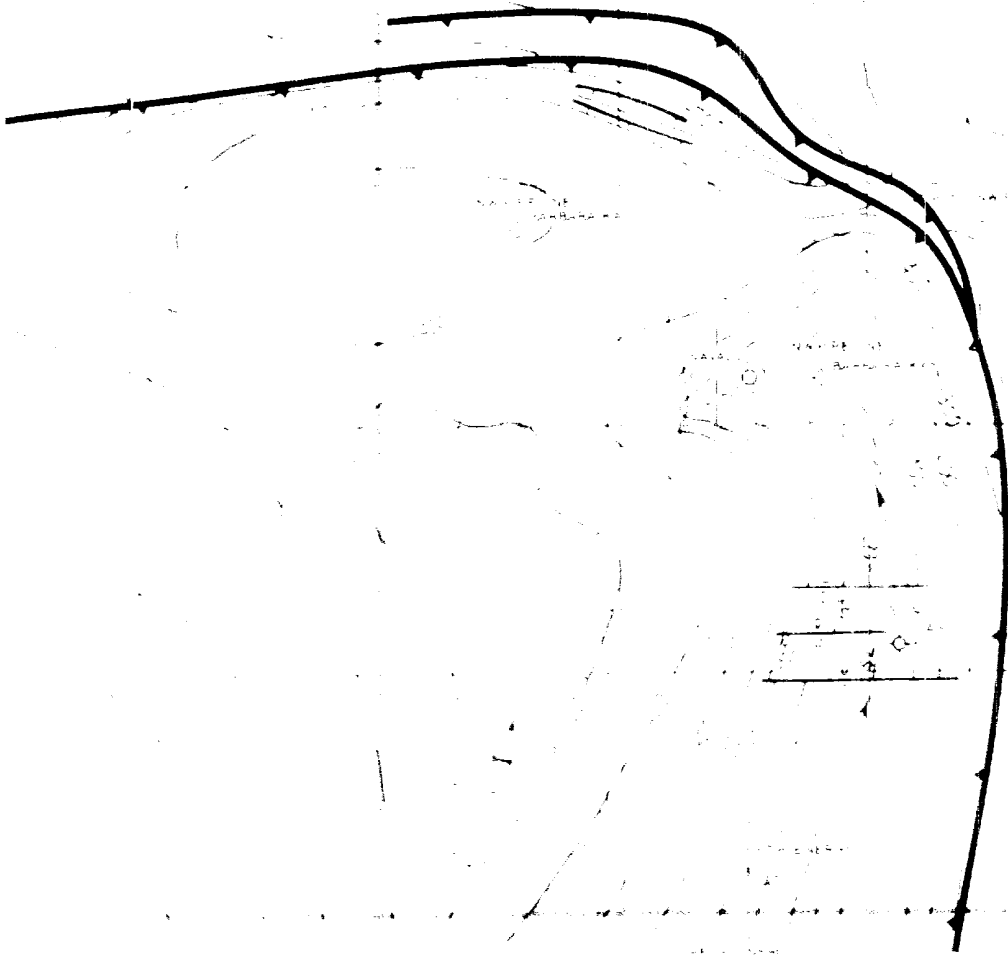
BASE - ENTERPRISE - PROPOSED
BEAUTIFUL - MTN
TOP - MISSISSIPPIAN

FIGURE 23

R 20 W

R 19 W

T
27
N



HAYS ENTERPRISES PROP. CO.
BEAUTIFUL MTN
IN CO. OF OREGON
STRUCTURE TOP MISSISSIPPIAN

FIGURE III

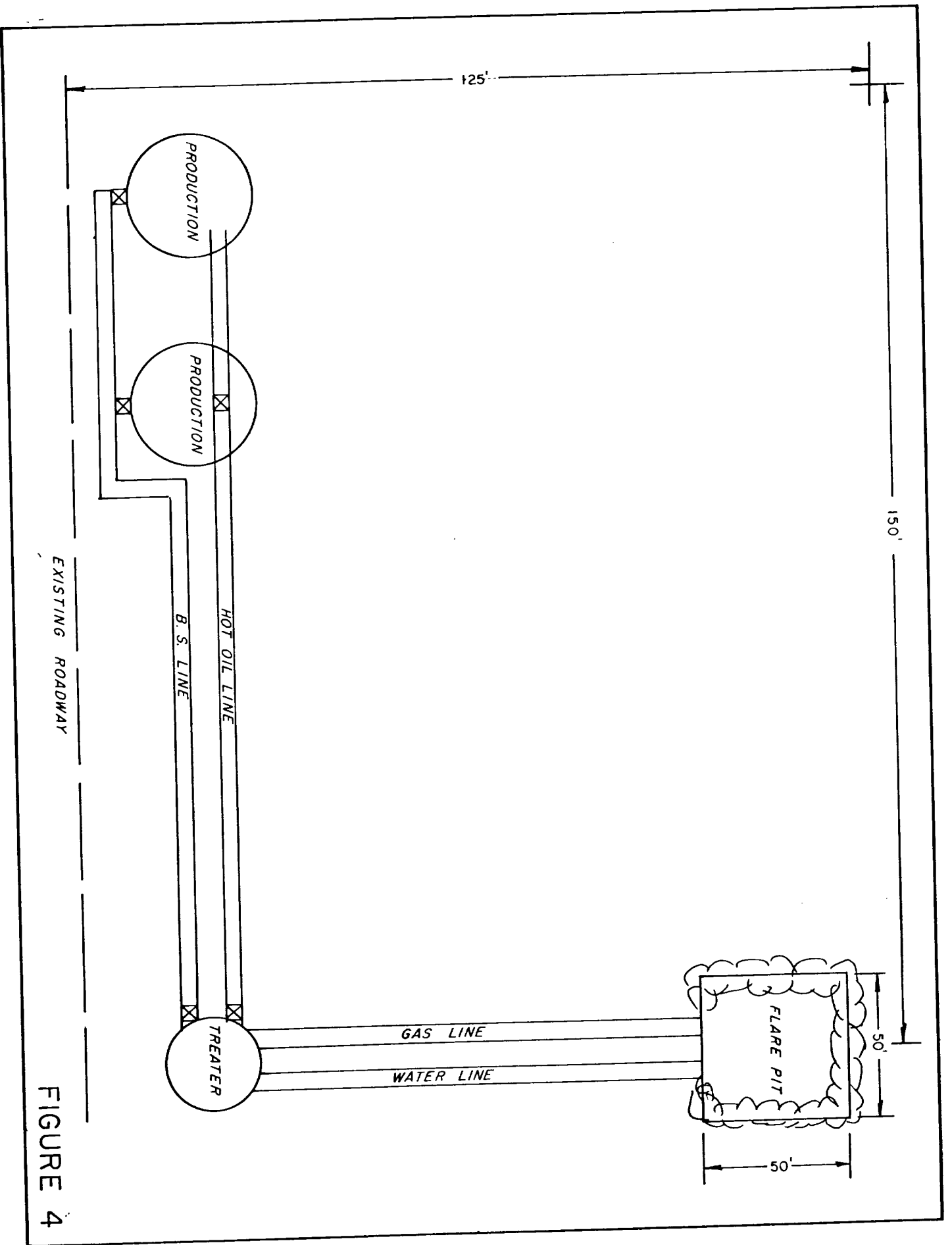
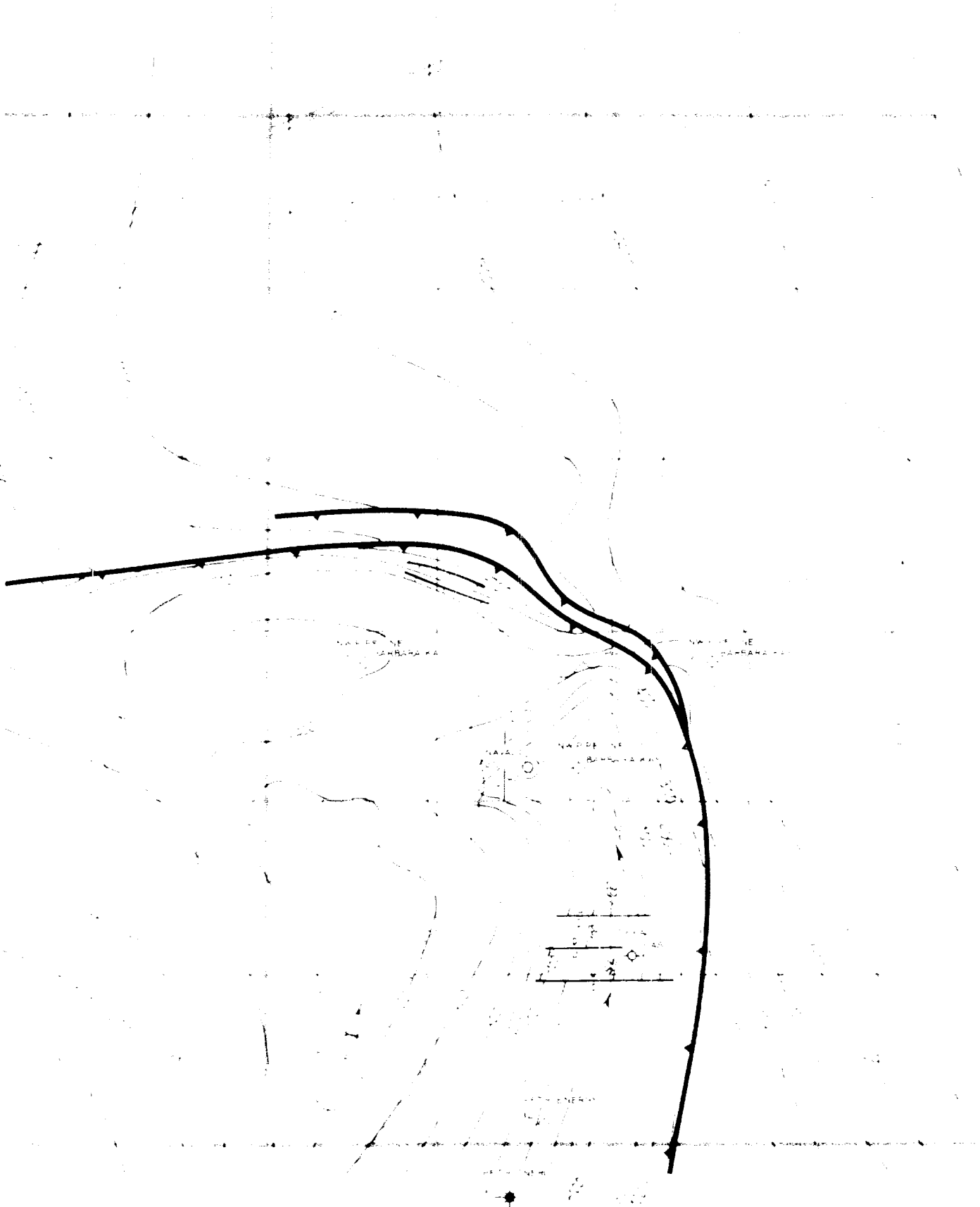


FIGURE 4

R 20 W

R 19 W

T
27
N



BASS ENTERPRISES PROD CO
BEAUTIFUL MTN
STRUCTURE TOP MISSISSIPPIAN

FIGURE III

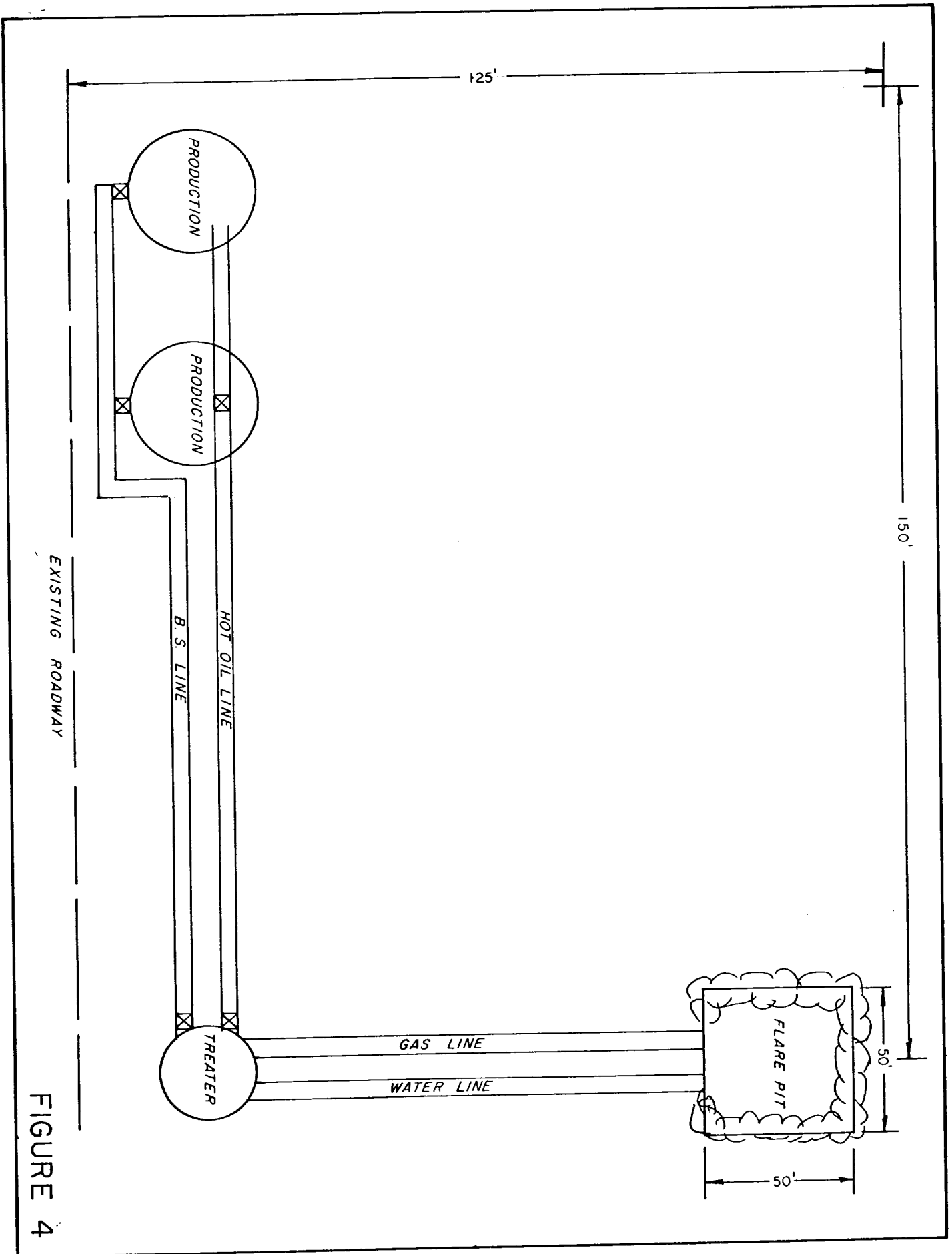
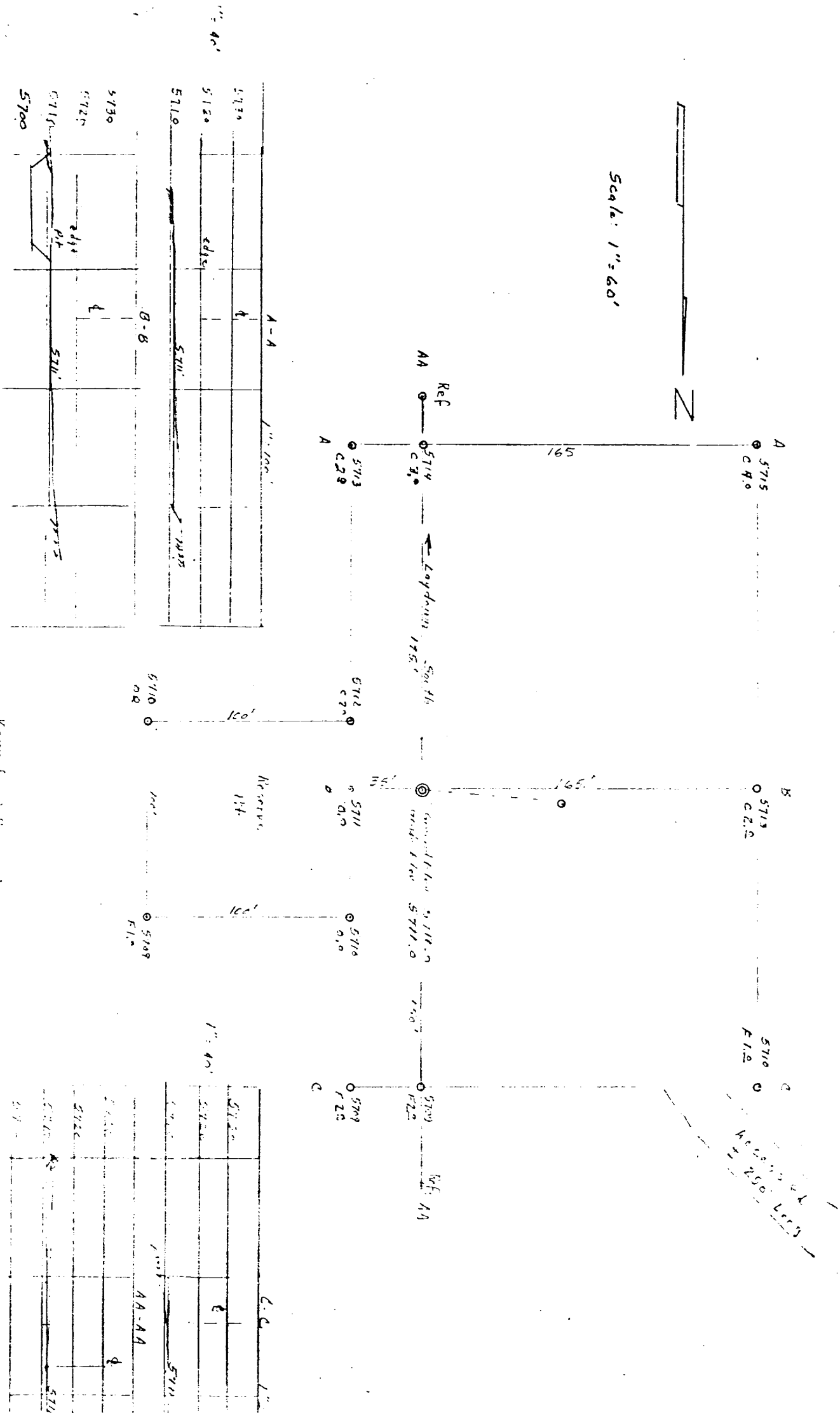


FIGURE 4

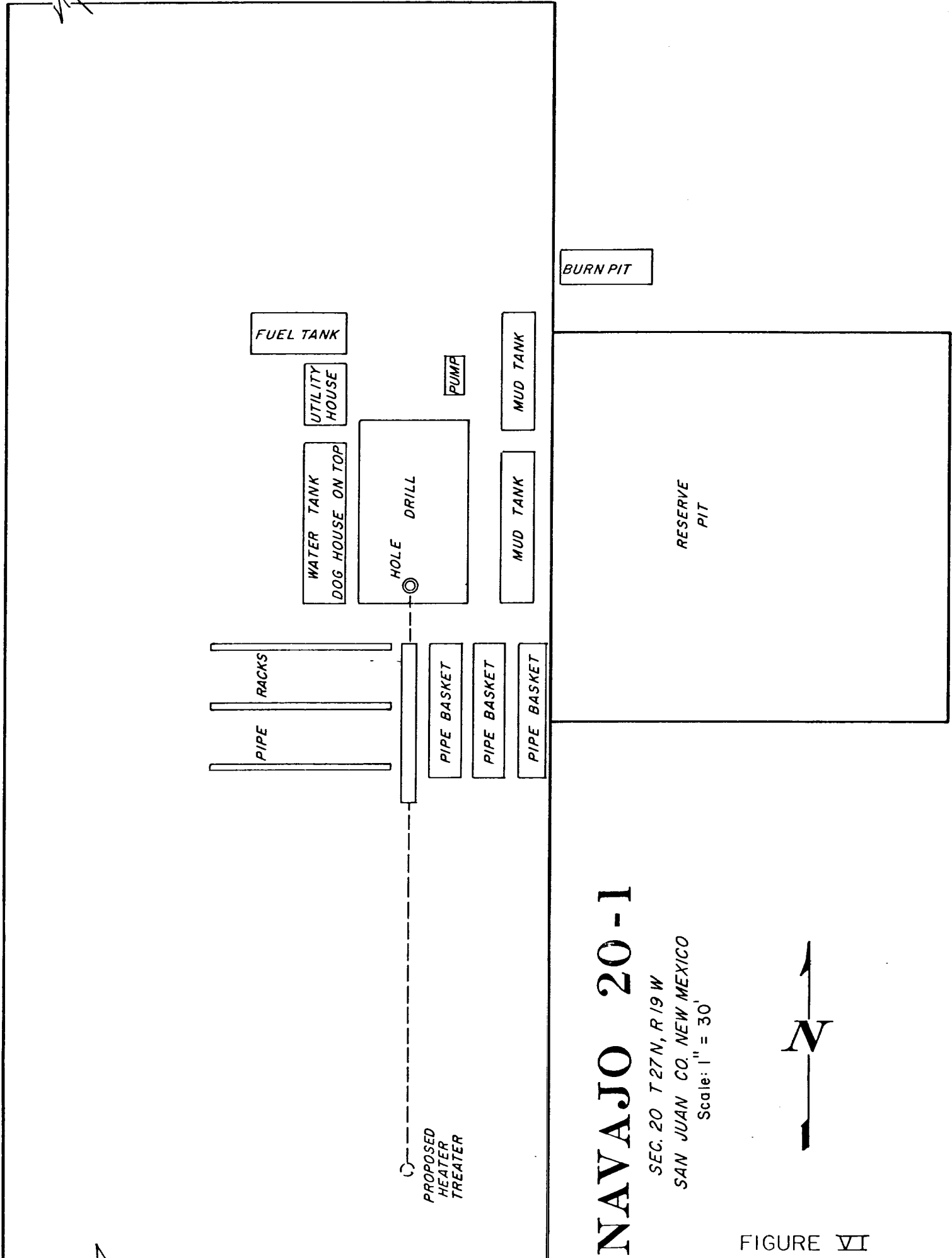
LOCATION PROFILE MAP for
 BASS ENTERPRISES PRODUCTION CO. #20-1 Navajo
 1190' FSL, 2510' FEL, Sec 20-127N-R19W San Juan County, New Mexico

FIGURE IV



Kerr Land Surveying
 March 31, 1978

ACCESS
ROAD,
250'
LONG



NAVAJO 20-1

SEC. 20 T 27N, R 19 W
SAN JUAN CO. NEW MEXICO
Scale: 1" = 30'



FIGURE VI



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

JERRY APODACA
GOVERNOR

NICK FRANKLIN
SECRETARY

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

April 26, 1978

Mr. E. S. Eubanks
Bass Enterprises Production Company
P. O. Box 2131
Denver, Colorado 80201

Re: Bass Enterprises Production Company
Navajo 20 #1
0-20-27N-19W

Dear Mr. Eubanks:

The intended location of the above well is not in accordance with Rule 104 of the "Rules and Regulations" of the Oil Conservation Division. Please refer to paragraph F of Rule 104 and file applications for an unorthodox location, sending two copies to this office and two copies to the Santa Fe office.

We have changed the name of the above well to Navajo 20 #1 to comply with the attached memorandums, and we have notified the U.S.G.S., Farmington office of the change.

Also, we have changed the objective horizon name to Pennsylvanian.

If you have any questions, please call this office.

Yours truly,

Frank T. Chavez
Deputy Inspector, District #3

Enclosures

FTC:no

xc: U.S.G.S., Farmington

Well

OIL CONSERVATION COMMISSION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

May 1, 1978

Bass Enterprises Production Co.
P. O. Box 2131
Denver, Colorado 80201

Attention: E. B. Eubanks

Re: Request for Non-Standard
Location Navajo 20 No. 1,
Section 20, T27N, R19W,
San Juan County, New Mexico

Dear Mr. Eubanks:

The subject request for non-standard location cannot be approved administratively and must be set for hearing. Unless advised otherwise, this application will be set for hearing before a Division Examiner on June 7, 1978.

Very truly yours,

R. L. STAMETS
Technical Support Chief

RLS/fd

cc: ✓ Al Kendrick



OIL CONSERVATION COMMISSION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

MAY 1, 1978

Asas Enterprises Production Co.
P. O. Box 2181
Denver, Colorado 80201
Attention: E. M. Imbanks

Request for Non-Standard
Location Navajo Co. I,
Section 20, T27N, R19W,
San Juan County, New Mexico

Dear Mr. Imbanks:

The subject request for non-standard location cannot
be approved administratively and must be set for hearing.
Unless advised otherwise, this application will be set
for hearing before a Division Examiner on June 7, 1978.

Very truly yours,

R. L. BURMAN
Technical Support Office

RECEIVED

cc: Mr. Imbanks

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 6240
Order No. R-5745

APPLICATION OF BASS ENTERPRISES PRODUCTION
COMPANY FOR AN UNORTHODOX OIL WELL LOCATION,
SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

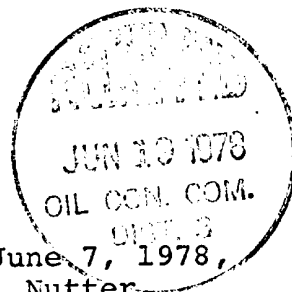
BY THE DIVISION:

This cause came on for hearing at 9 a.m. on June 7, 1978, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 15th day of June, 1978, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Bass Enterprises Production Company, seeks approval of an unorthodox oil well location for its Navajo 20 Well No. 1 to be drilled at a point 1190 feet from the South line and 2510 feet from the East line of Section 20, Township 27 North, Range 19 West, NMPM, to test the Barker Creek-Pennsylvanian formation, San Juan County, New Mexico.
- (3) That the SW/4 SE/4 of said Section 20 is to be dedicated to the well.
- (4) That a well at said unorthodox location will better enable applicant to produce the oil underlying the proration unit.
- (5) That no offset operator objected to the proposed unorthodox location.
- (6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the oil in the subject pool, will prevent the economic



loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That an unorthodox oil well location for the Barker Creek-Pennsylvanian Pool is hereby approved for the Bass Enterprises Production Company Navajo Well No. 1 to be drilled at a point 1190 feet from the South line and 2510 feet from the East line of Section 20, Township 27 North, Range 19 West, NMPM, San Juan County, New Mexico.

(2) That the SW/4 SE/4 of said Section 20 shall be dedicated to the above-described well.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



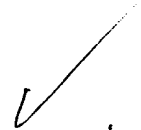
JOE D. RAMEY
Director

S E A L

fd/

SURVEYS

NAVAJO 20 #1



<u>DEPTH (FT)</u>	<u>DEVIATION (°)</u>
95'	0.75
189'	1.0
550'	1.25
1202'	1.50
3644'	1.25
3915'	1.0
5000'	0.5

TD at 5670'

STATE OF COLORADO X
COUNTY OF DENVER X



Witness herewith my signature and notary seal this
2nd day of February, 1979.

Deborah K. Oehler
Notary Public

My Commission Expires:
Jan. 28, 1982

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

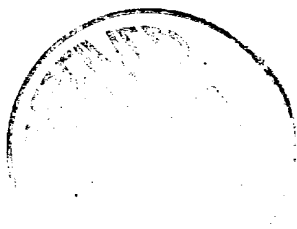
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. N00-C-14-20-2976
2. NAME OF OPERATOR BASS ENTERPRISES PRODUCTION CO.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal
3. ADDRESS OF OPERATOR P. O. Box 2131, Denver, Colorado 80201		7. UNIT AGREEMENT NAME Navajo
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1190' FSL, 2510' FEL Section 20		8. FARM OR LEASE NAME Navajo
11. PERMIT NO. _____ 12. ELEVATIONS (Show whether DE, RL, GR, etc.) 5711' GR		9. WELL NO. 20 #1
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT Wildcat
NOTICE OF INTENTION TO:		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 20-27N-19W
TEST WATER SHUT-OFF <input type="checkbox"/>	REPAIR OR ALTER CASING <input type="checkbox"/>	12. COUNTY OR PARISH 13. STATE San Juan N. Mexico
FRACTURE TREAT <input type="checkbox"/>	COMPLETE <input type="checkbox"/>	
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	
(Other) <input type="checkbox"/>		
17. 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.)*		

Well was spud at 10:30 AM on 10-11-78.

Ran 5 jts 13-3/8" 48# H-40 STC, set at 202' cemented with 108 sx lite with 2#/sx tuff plug, 1/4#/sx cello flake and 2% A7 tailed in with 100 sx Class B with 2#/sx tuff plug, 1/4#/sx cello flake and 2% A7.

Ran 30 jts of 8-5/8" 24# K-55 STC. Set at 1202'. Cement 8-5/8" casing with 420 gal. gelled water flush, 330 sx lite cement with 2#/sx tuff plug, 1/4#/sx cello flake, 2% CaCl₂, 200 sx Class B with 2#/sx tuff plug, 1/4#/sx cello flake, 2% CaCl₂, circulating during job but did not circulate any cement. Ran 1" to 100' cement with 100 sx Class B with 2% CaCl₂. Circulated cement to surface. Cutoff 13-3/8" no cement around 8-5/8". Ran 1" cement with 75 sx lite with 3% CaCl₂. Cement circulated. Nipple up and test BOP to 1500#, held okay.



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

SIGNED _____
(This space for Federal or State office use)

TITLE Drilling Engineer

DATE 10-16-78

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____