

CASING DESIGN

BIG EDDY UNIT # 85

SURFACE CASING

<u>Segment</u>	<u>Size</u>	<u>Grade</u>	<u>Thread</u>	<u>Weight</u>	<u>Top</u>	<u>Bottom</u>	<u>Length</u>
1	11-3/4	H-40	ST&C	42	0'+	1000'+	1000'+

INTERMEDIATE CASING

<u>Segment</u>	<u>Size</u>	<u>Grade</u>	<u>Thread</u>	<u>Weight</u>	<u>Top</u>	<u>Bottom</u>	<u>Length</u>
1	8-5/8"	K-55	ST&C	32	2900'+	3300'+	400'+
2	8-5/8"	S-80	ST&C	28	0'+	2900'+	2900'+

PRODUCTION CASING

<u>Segment</u>	<u>Size</u>	<u>Grade</u>	<u>Thread</u>	<u>Weight</u>	<u>Top</u>	<u>Bottom</u>	<u>Length</u>
1	5-1/2"	S-95	LT&C	17	9660'+	13,000'+	3340'+
2	5-1/2"	N-80	LT&C	17	230'+	9660'+	9430'+
3	5-1/2"	S-95	LT&C	17	0'+	230'+	230'+

BIG EDDY UNIT # 85

Anticipated Formation Tops

T/Capitan Reef	2000'	(+1,384')
T/Delaware Sand	3300'	(+84')
T/Indian Draw	4130'	(-746')
T/Bone Springs	6800'	(-3,416')
T/Wolfcamp	9950'	(-6,566')
T/Strawn	11,200'	(-7,816')
T/Atoka	11,625'	(-8,241')
T/M. Morrow	12,350'	(-8,966')
T/L. Morrow	12,660'	(-9,276')
T/Barnett	12,900'	(-9,516')

Stephen Smith

BASS ENTERPRISES PRODUCTION CO.
DIVISION EXPLORATION AND PRODUCTION OFFICES
P. O. BOX 2760
MIDLAND, TEXAS 79702

January 6, 1981

800 VAUGHN BUILDING
(915) 684-5723

U. S. Geological Survey
P.O. Drawer "U"
Artesia, New Mexico

Attention: Mr. Peter Chester

Re: Big Eddy Unit # 85
Eddy County, New Mexico
File: 400-WF

Dear Mr. Chester:

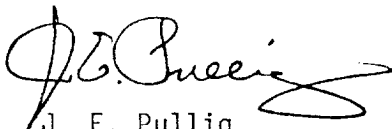
Attached are our applications (5 copies) to drill the subject well with complete Drilling Prognosis, Development Plan and Multipoint Surface Use and Operations Plan.

Please be advised that an archeological survey of this location will be done by New Mexico Archeological Services, Inc., Carlsbad, New Mexico, and they will forward a report to your office.

Feel free to contact myself or L. M. Cure at the letterhead address if any additional information is required.

Very truly yours,

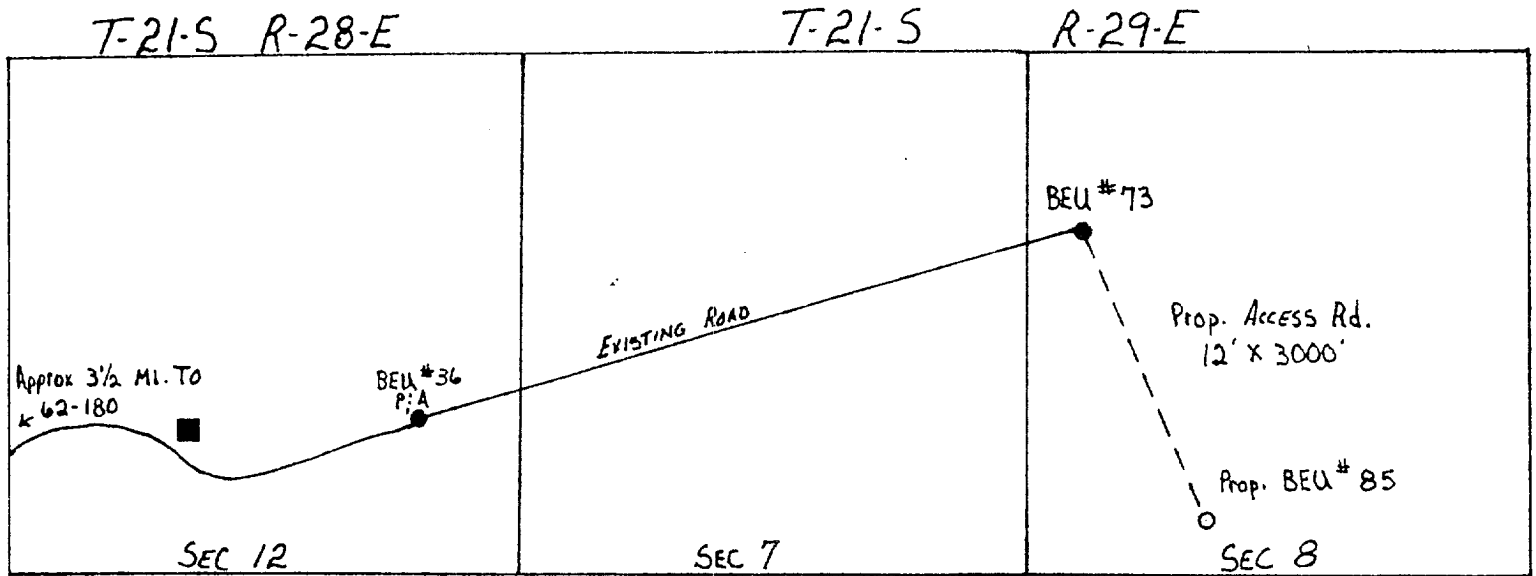
PERRY R. BASS


J. E. Pullig
Division Manager

JEP/SDS:bnw

Attachments

EDDY COUNTY, NEW MEXICO



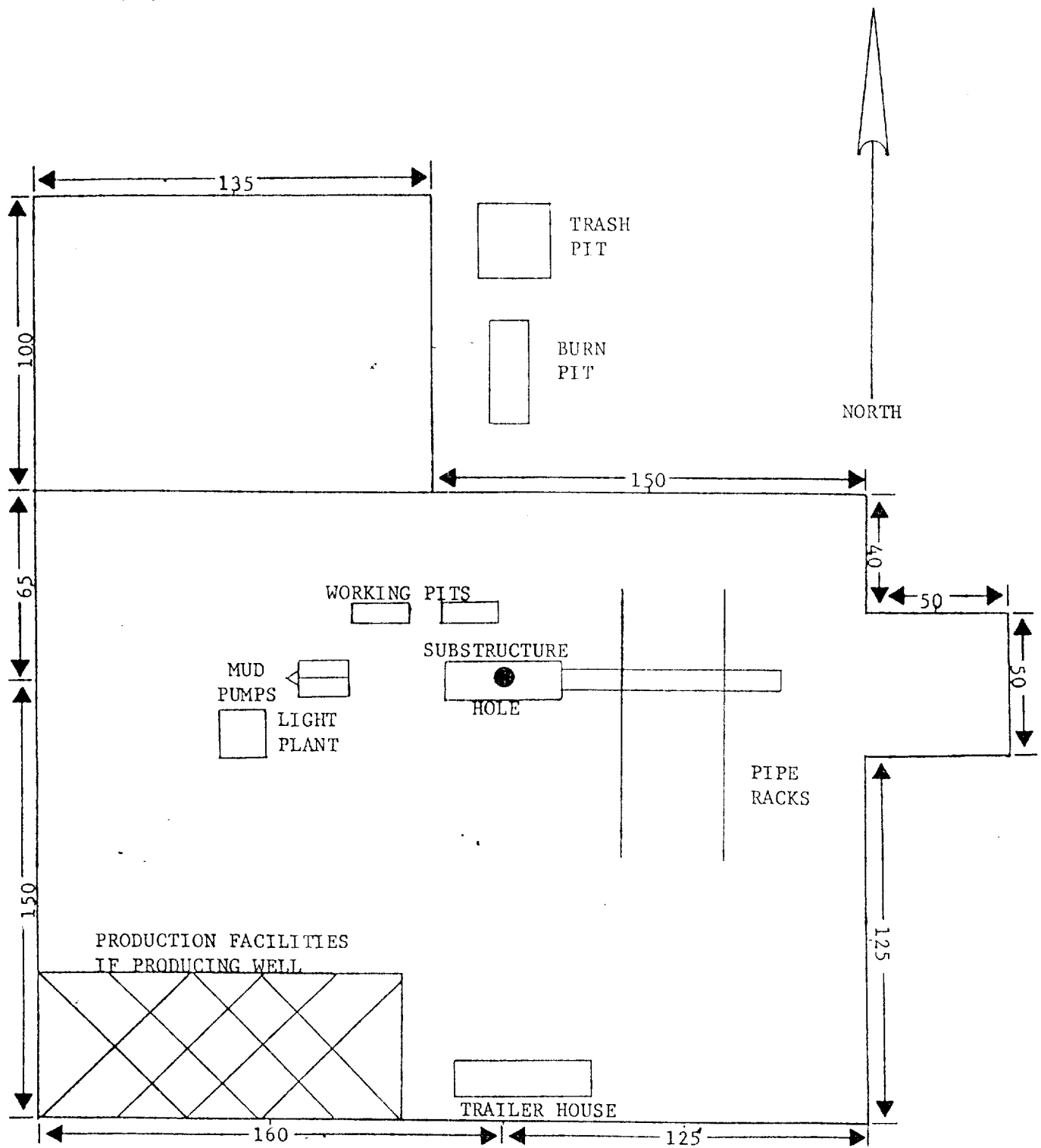


EXHIBIT "C"

Location:

660' FSL & 1980' FWL, Sec. 8, T21S, R29E

Conductor Casing:

40' ± of 16" conductor casing will be set with a rathole machine and cemented to the surface with ready mix.

Surface Hole:

A 15" O.H. will be drilled to 1000' ± (T/Rustler) and 11-3/4" 42#/ft H-40 casing run to total depth. The surface casing will be cemented with 350 sx Class "C" plus 2% CaCl₂. Cement must be circulated to the surface.

Total WOC time is 12 hours.

Nippling Up 11-3/4" Casing:

After waiting 4 hours "nippling up" procedures may begin. An 11-3/4" SW 3000# WP x 12" 3000# WP casinghead will be welded in place. A set of hydraulic operated pipe and blind rams will then be installed, (See BEPCO II attached) and tested to 1000 psi with the rig pump.

The results of this test must be reported in the daily driller's log.

Intermediate Hole:

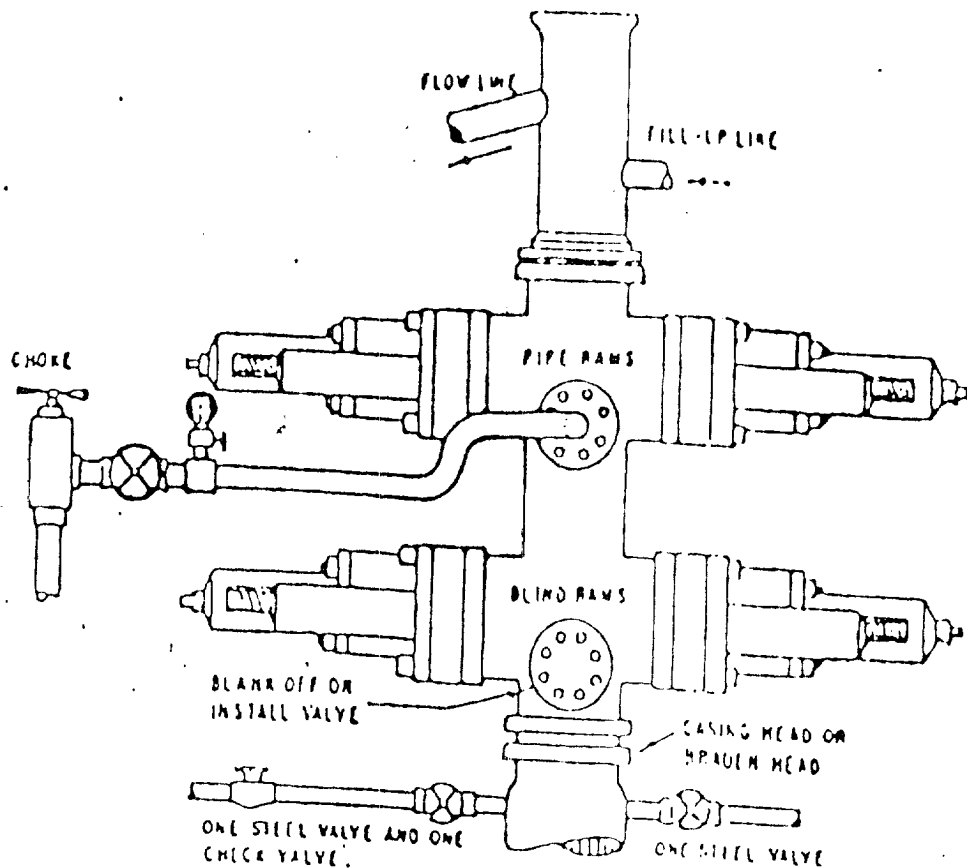
An 11" O.H. will then be drilled to 3300' (T/Delaware Mtn. Group). 8-5/8" casing will be run to total depth and cemented with approximately 1000 sks Halliburton Lite plus 18# NaCl/sx plus flocel, plus 1% CaCl₂ "tailed-in" with 350 sx Class "C" with 2% CaCl₂ plus 1/4#/sx flocel. Cement will be circulated to the surface.

A DV tool will be installed at approximately 2144' (100' into Capitan Reef) and the cement two staged if lost circulation occurs in the reef.

Total WOC time for this casing string will be 24 hours.

Nippling Up 8-5/8" Casing:

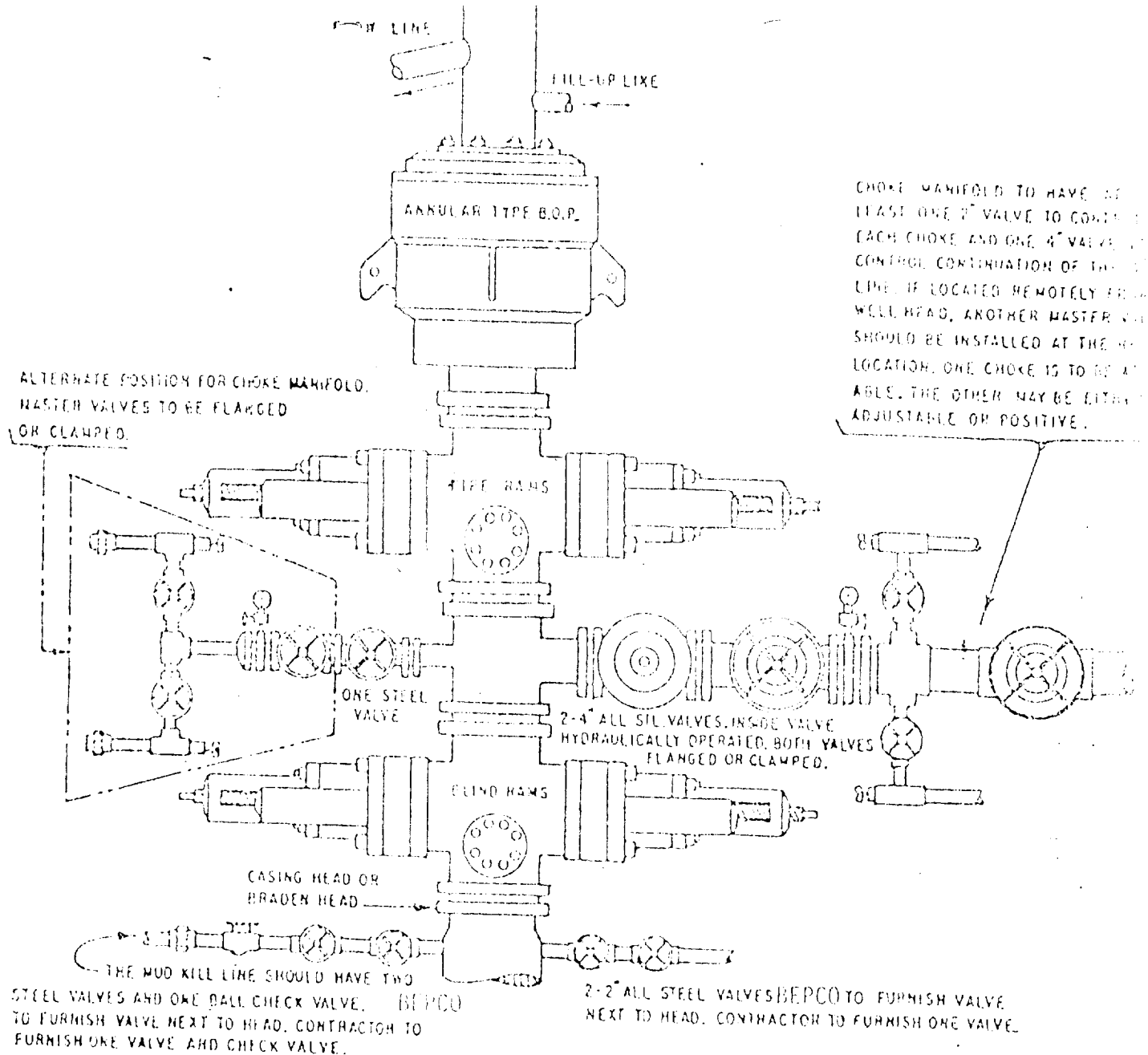
After waiting 4 hours "nippling up" procedures may begin. A 12" 3000# WP x 10" 5000# WP wellhead spool with 8-5/8" seals and bit guide will be installed.



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 OR PREVENTERS BETWEEN RAMS.
- B. OPENING TO BE FLANGED, STUDDED OR CLAMPED AND AT LEAST TWO INCHES DIAMETER.
- C. ALL CONNECTIONS FROM OPERATING MANIFOLD 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 RIG FLOOR.
- H. CHOKE MAY BE EITHER POSITIVE OR ADJUSTABLE. choke spool may be used between rams.

REPCO II
ONE HYDRAULIC DUAL BLOWOUT PREVENTER



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

1. CONDITIONS MAY BE MET BY AN ANNULAR TYPE BLOWOUT PREVENTER ON TOP AND A CHOKER SPOOL BELOW AND EITHER
 - (1) TWO RAM TYPE BLOWOUT PREVENTERS BELOW THE SPOOL, THE LOWER UNIT CONTAINING BLIND RAMS AND THE UPPER UNIT CONTAINING PIPE RAMS, OR
 - (2) A DUAL BLOWOUT PREVENTER BELOW THE SPOOL WITH BLIND RAMS ON BOTTOM AND PIPE RAMS ON TOP.
2. OPENING ON CHOKER SPOOL TO BE FLANGED, STUDDED OR CLAMPED.
3. ALL CONNECTIONS FROM OPERATING MANIFOLDS TO PREVENTERS TO BE ALL STEEL HOSE OR TUBE A MINIMUM OF ONE INCH IN DIAMETER.
4. THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE PREVENTER.
5. ALL CONNECTIONS TO AND FROM PREVENTER TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.
6. MANUAL CONTROLS TO BE INSTALLED BEFORE BUILDING CEMENT PLUG.
7. KELLY COCK TO BE INSTALLED ON KELLY.
8. INSIDE BLOWOUT PREVENTER TO BE AVAILABLE ON RIG FLOOR.
9. DUAL OPERATING CONTROLS ONE LOCATED BY DRILLERS POSITION AND THE OTHER LOCATED A SAFE DISTANCE FROM THE RIG FLOOR.

BOPCO IV

THREE CLOSURE HYDRAULIC BLOWOUT PREVENTERS

Form 9-331
(May 1963)UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

02946

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 ☐ GAS WELL ☒ OTHER

JAN 28 1981

2. NAME OF OPERATOR

Perry R. Bass

3. ADDRESS OF OPERATOR

P.O. Box 2760, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1980' FWL & 660' FSL Sec. 8, T21S, R29E

7. UNIT AGREEMENT NAME

Big Eddy Unit

8. FARM OR LEASE NAME

Big Eddy Unit

9. WELL NO.

85

10. FIELD AND POOL, OR WILDCAT

Golden Lane Morrow

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 8, T21S, R29E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3366.1' GL

12. COUNTY OR PARISH

Eddy

13. STATE

NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

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.)*

Perry R. Bass hereby submits revised location for service road to Big Eddy Unit #85. Please find attached a corrected Multi-Point Surface Use and Operations Plan sheet with new Exhibit "A".

RECEIVED
JAN 15 1981
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED

Stephen Smith

TITLE Engineering Assistant

DATE January 13, 1981

(This space for Federal or State office use)

(Orig. Sgd.) GEORGE H. STEWART

APPROVED BY

TITLE

JAN 22 1981

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Big Eddy Unit # 85

660' FSL & 1980' FWL

Sec. 8, T21S, R29E

Eddy County, New Mexico

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction, activities, and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to rehabilitate the surface after completion of operations so that an appraisal can be made on environmental effects.

1. Existing roads including location of exit from main highway From Carlsbad
go N.E. on U.S. 62 approx. 14 miles to its intersection with Hwy 31 north.
Continue 1 mile east on U.S. 62 and turn on caliche road due south for 1/4
mile, turn west for 1/4 mile then south again for 1/4 mile to Big Eddy Unit
#73 location. From here go due south to location. (see Exhibit "A")
2. Planned access road Exhibit "A" shows the planned access road to BEU #85.
This road will be 12' wide and approximately 3800' long. The road will
be constructed of watered and compacted caliche with no turnout, cattleguards
or gates.
3. Location of existing wells Exhibit "A" shows surrounding existing wells.
4. Location of tank battery and flow lines If a commercial well is obtained
production facilities will be located in the well pad. Refer to Exhibit "C".

5. Location and type of water supply

Fresh water will be hauled from the city of Carlsbad. Brine water will be hauled from Champion Brine Water Station 3-1/2 miles east and 2-1/2 miles south of Carlsbad.

6. Source of construction material

Exhibit "A" shows location of caliche source.

7. Methods of handling waste disposal:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste materials will be contained to prevent scattering by the wind. Location of trash pit is shown in Exhibit "D".
- F. Trash and debris will be buried or removed from the well site within 30 days after finishing drilling and/or completion operations. (Note: All trash left on well site to be removed or buried within 30 days must be contained to prevent scattering.)

8. Ancillary facilities

None required.

9. Well site layout

Exhibit "C" shows the approximate dimensions of the well pad and reserve pit, as well as the relative location of major rig components, trash pit, etc. Only minor leveling of the well site will be required. No significant cuts or fills will be necessary. The reserve pits will be lined with plastic. The pit and pad area have been staked and flagged.

10. Plans for restoration of surface:

- A. Producing well - all pits will be cut, filled, and leveled as soon as practical to original conditions with rehabilitation to commence following removal of drilling and completion equipment.
- B. Dry hole - same as above with dry hole marker to be installed and surface reseeded if required. At the same time of final abandonment, USGS and BLM restoration stipulations will be complied with.

11. Other information:

- A. Terrain Relatively flat
- B. Soil Sandy
- C. Vegetation Sparse, primarily mesquite, with very little grass.
- D. Surface use Grazing
- E. Surface water None
- F. Water wells There is a water well approx. 2 miles SE of location.
- G. Residences and buildings None
- H. Surface ownership The well site and access roads all on federal land.
- I. Well signs posted at each drilling site.
- J. Open pits - all pits containing liquid or mud will be fenced.
- K. Archaeological resources None observed.

12. Operator's representative
(Field personnel responsible for compliance with development plan for surface use)

DRILLING
Mike Cure
Box 2760
Midland, Texas 79702
915-684-5723

PRODUCTION
Al Gallas
Box 1043
Kermit, Texas 79745
915-563-0656
(or) Mike Cure
Box 2760
Midland, Texas 79702
915-684-5723

13. Certification:

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 Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

January 14, 1981
(Date)

Stephen Smith
(Name)

Engineering Assistant
(Title)

CLB:gp

