

N.M.O.C.D.

SUBMIT IN T
(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-R1425.UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-23798

C/SF

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

B. TYPE OF WELL

OIL

WELL ☒

GAS

WELL ☐

OTHER

SINGLE

ZONE ☐

MULTIPLE

ZONE ☐

2. NAME OF OPERATOR

Anadarko Production Company

3. ADDRESS OF OPERATOR

P. O. Box 67, Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

400' FSL & 2130' FEL Sec. 8, T18S, R29E

At proposed prod. zone

Eddy County, New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 7 miles Southwest of Loco Hills Townsite

16. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

2130'

16. NO. OF ACRES IN LEASE

2600

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

193'

19. PROPOSED DEPTH

2830'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

3507.3 GL

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24.0#	350'	250 sq Circ.
7-7/8"	4-1/2"	10.5#	2830'	750 sq Circ.

1. Rig up rotary tools.
2. Drill to 350'; set & circulate or ready-mix cement to surface on 8-5/8" casing. Install & Test Series 900 Double Ram Hydraulic Blowout Preventer.
3. Drill to approximately 2830'. Run Open Hole Logs.
4. Set & cement 4-1/2" casing @ T D.
5. Perforate, acidize and fracture treat Grayburg zone.
6. Run 2-3/8" tubing, rods & bottomhole pump; install pumping equipment and place well on production.

Note: Archaeological clearance of this proposed location has been obtained & arrangements have been made with land owner for surface damages (see attached letter).

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

George E. Stewart

TITLE

Area Supervisor

DATE

May 11, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED

(Orig. Seal)

GEORGE E. STEWART

MAY 20 1981

FOR
JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

5. LEASE DESIGNATION AND SERIAL NO.

LC - 050906

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Ballard Grayburg
San Andres Unit

8. TRACT OR LEASE NAME

Tract No. 3

9. WELL NO.

16

10. FIELD AND POOL, OR WELDCAT

Loco Hills-Queen-
Grayburg-San Andres11. SEC., T., R., MC, OR BLM
AND SURVEY OR AREA

U-08 - 18S - 29E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

22. APPROX. DATE WORK WILL START*

May 20, 1981

Posted ID-1
API + NL Book
5-28-81MAY 14 1981
U.S. GEOLOGICAL SURVEY
NEW MEXICO

**N 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

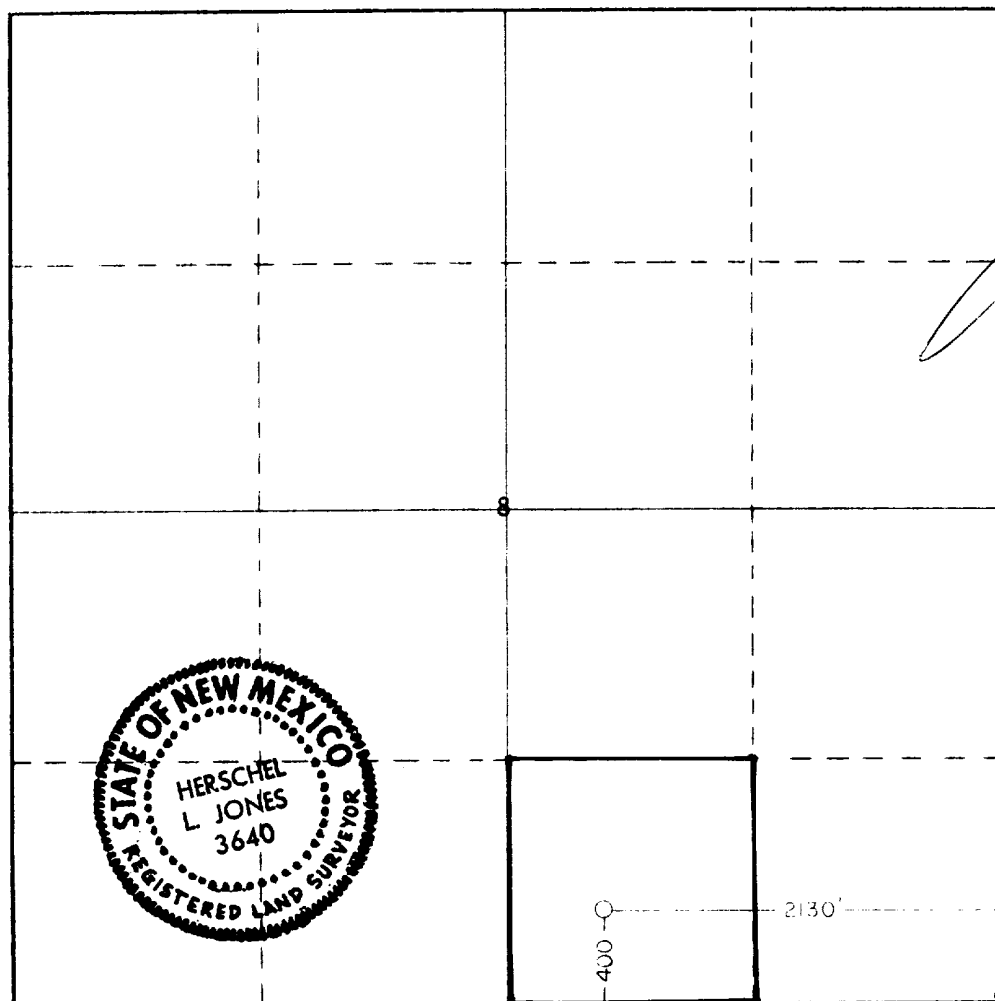
Operator ANADARKO PRODUCTION COMPANY			Lease Ballard Grayburg San Andres <i>Unit</i>		Well No. 16
Tract Letter 0	Section 5	Township 15 South	Range 29 East	County Eddy	
Actual Footage Location of Well: 400 feet from the South line and 2130 feet from the East line					
Ground Level Elev. 3507.3	Producing Formation Grayburg		Pool Local Hills - Queen Grayburg - San Andres		Dedicated Acreage: 40

- 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 unitization

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

Jerry E. Buckles
Name
Jerry Buckles

Position
Area Supervisor

Company
Anadarko Production Co.

Date
May 14, 1981

I hereby certify that the well location shown on this plat was plotted from field U.S. Geological Survey maps by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
May 12, 1981

Registered Professional Engineer and/or Land Surveyor

[Signature]

Certificate No.
3640

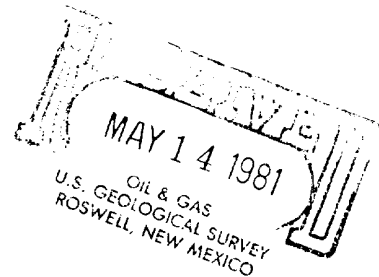
Anadarko
PRODUCTION COMPANY

A
Panhandle
Eastern
Company

P. O. Box 67 • Loco Hills, New Mexico 88255 • (505) 677-2411

May 11, 1981

Mr. Jim Gillham or Mr. Charles Flaherty
United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico 88201



Re: Ballard Grayburg San Andres Unit
Tract No. 5, Well No. 16
SW/4 of SE/4 Sec. 8, T18S, R29E
Eddy County, New Mexico

Dear Mr. Gillham or Mr. Flaherty,

Bogle Farms, Inc. is the surface owner of the above captioned location.

On May 11, 1981 arrangements were made with Mr. Millard Derrick (Ranch Foreman for Bogle Farms, Inc.) for the drilling of this location. Upon final abandonment, this location will be cleaned, leveled and all pits backfilled.

No other restoration stipulations were required by Mr. Derrick.

Yours very truly,


Jerry E. Buckles, Area Supervisor

JEB/rk

DATA SHEET

This data sheet is provided in reference to the attached Application for Permit to Drill "Anadarko's": BGS AU - Tract No. 5, Well No. 16

1. Location: 400' FSL & 2130' FEL Sec. 8, T18S, R29E, Eddy County, New Mexico

2. Elevation: 3507.3' GL

3. Geological Name of Surface Formation: Triassic-Doakum (Santa Rosa)

4. Type of Drilling Tools to be utilized: Rotary Tools

5. Proposed Drilling Depth: 2830'

6. Tops of Important Geological Markers:

T. Salt - - - - -	330'	7-Rivers - - - - -	1270'
B. Salt - - - - -	900'	Queen - - - - -	1970'
Tansill - - - - -	925'	Grayburg - - - - -	2320'
Yates - - - - -	970'	San Andres - - - - -	2720'

7. Estimated Depth of Anticipated Water, Oil or Gas:

Oil - - - - - 2450' - 2720'

8. Casing Program:

8-5/8" - 24.0#, J-55 - New
4-1/2" - 10.5#, J-55 - New

9. Setting Depth of Casing:

8-5/8" - 350' w/200 sx cement
4-1/2" - T. D. w/750 sx cement

10. Specifications for Pressure Control Equipment:

This Warton Rig is equipped with a Series 900 BOP with 4" Blind Rams, kill line and choke manifold; Payne Hydraulic Controls and Accumulator with remote controls. When nipping up, test BOP and Choke to 500 psi. Operate BOP equipment once a day, or as directed by Company Representative. See Exhibit #4 for BOP Schematic.

11. Mud Program:

Drill with Fresh Water Native Mud to 350'; drill from 350' to T D with brine water; at T D sweep hole with a pit of high viscosity mud.

12. Testing, Logging & Coring Program:

- a. Testing: No drill stem tests will be conducted.
- b. Coring: No coring is planned.
- c. Logging: Open Hole logs will be run prior to running 4 1/2" casing.

13. Potential Hazards:

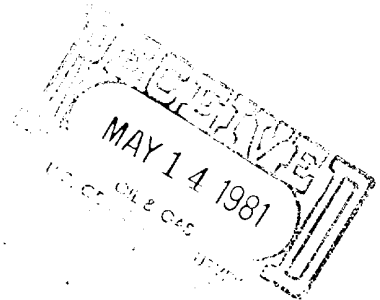
None are expected. Above described BOP should take care of any blowout problems. Numerous wells have been drilled in this area without problems.

14. Anticipated Starting Date & Duration:

Plan to begin drilling operations May 20, 1981. Approximately 6 days will be required to drill the well and 2 weeks for completion.

15. Other Facets:

None.



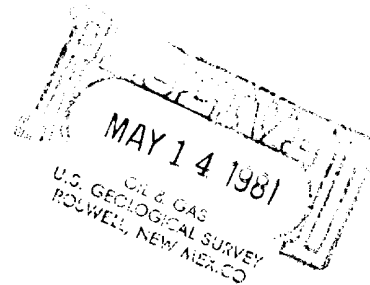
Anadarko
PRODUCTION COMPANY

A
Panhandle
Eastern
Company

P. O. Box 67 • Loco Hills, New Mexico 88255 • (505) 677-2411

May 11, 1981

Bureau of Land Management
P. O. Box 1778
Carlsbad, New Mexico 88220



Gentlemen:

Following is the "Surface Use and Operation Plan" for the drilling of Anadarko Production Company's Ballard Grayburg San Andres Unit Tract No. 5, Well No. 16 located 400' FSL & 2130' FEL Sec. 8, T18S, R29E, Eddy County, New Mexico.

1. Existing Roads - A small scale map is attached (Exhibit #1). It shows the location of this well in relation to Loco Hills, New Mexico Townsite.

A larger scale map (Exhibit #2) shows State Highway #360 and County Road #139 in blue. The existing caliche roads are shown in orange. An existing caliche road now crosses this location.

2. Planned Access Roads - It will not be necessary to build any new road. There will be no fence to cut or cattleguard to set.

3. Location of Existing Wells - All existing wells on lease are indicated on enclosed map. There are no exploratory wells being drilled within a two mile radius.

4. Location of Tank Batteries, Production Facilities and Lines - There is a central tank battery located on the Ballard Unit in the SW/4 of NW/4 of Sec. 8, T18S, R29E. All production on the Ballard Unit is piped to this central tank battery. Existing lease lines to central tank battery are shown in black; proposed line to location is dashed blue on Exhibit #2.

5. Location & Type of Water Supply - Fresh water to be used at drilling site will be supplied by I & W Trucking or Jim's Water Service and will be hauled from our Ballard Unit Water Plant and from Double Eagle Water Company (City of Carlsbad) taps in the Loco Hills area.

Brine water will be hauled by I & W or Jim's Water Service from B & E, Inc. located on County Road #139 approximately 10 miles Southwest of Loco Hills, New Mexico.

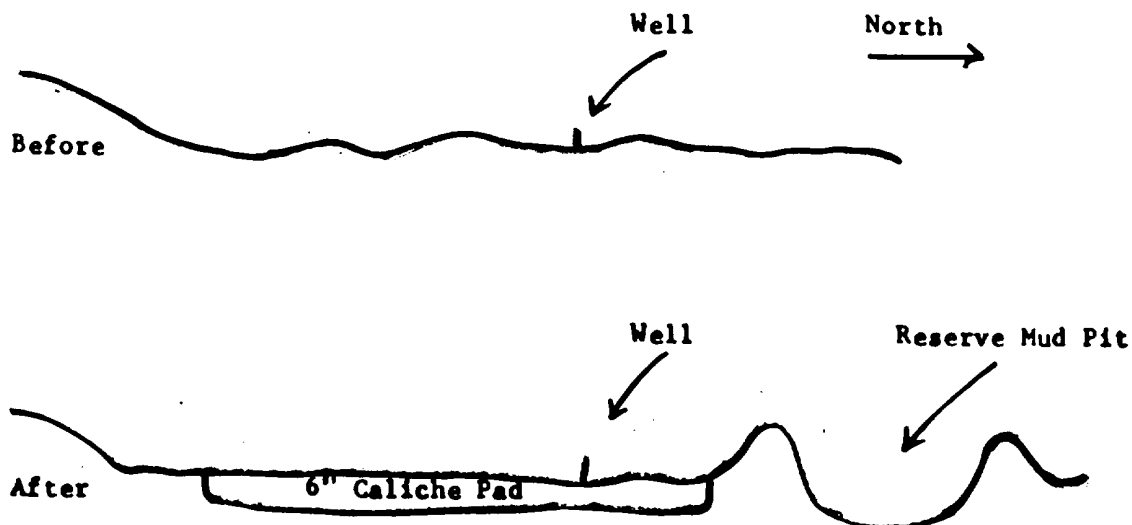
6. Source of Construction Material - All caliche will be hauled from an existing caliche pit located in the SW/4 of SW/4 of Sec. 8, T18S, R29E, Eddy County, New Mexico. This caliche belongs to the U. S. Government and is indicated on Exhibit #2 in green.

7. Methods for Handling Waste Disposal - Enclosed drill site plat (Exhibit #3) indicates location of drilling pits, reserve pit and rubbish pit. After sufficient time has elapsed to allow drilling fluids to dry, all pits will be closed and leveled. The rubbish pit adjacent to drilling site will be deep enough to contain all rubbish when covered and leveled.

8. Ancillary Facilities - There are no camps or airstrips planned.

9. Well Site Layout - Well site (Exhibit #3) has been staked and is indicated by red area on enclosed maps (Exhibits #1 & #2). Drilling site is a sandy area covered by sparse native vegetation. Drilling pad will be 6" of caliche measuring 90' East, 170' West, 80' North and 100' South. Drilling pad will blend with terrain since the topography is relatively flat.

Cross Section - Before and After - is shown below:



10. Plans for Restoration of Surface - Commercial Well.

Reshaped Topography - Rubbish will be buried upon completion of drilling operations. All future rubbish will be removed by the individual generating same.

Caliche Pad - Caliche drilling pad will remain intact until well is abandoned.

Road

Timetable - The well should produce for several years.

Plans for Restoration of Surface - Plugged and Abandoned Well.

Surface will be restored in accordance with all regulations in effect at the time of abandonment.

11. Other Information - Topography is generally flat, surrounded by small sand dunes.

Soil Characteristics - Unconsolidated sand.

Flora - Sparse grass and weeds.

Fauna - Rabbits, rats, mice, birds and snakes.

Other Surface Use Activities - Private grazing land.

Surface Ownership - Private.

Water Wells - None.

Lakes, Streams and Ponds - None.

Dwellings - None.

11. Other Information - continued.

Other Facilities - None.

Archaeological Sites - None.

Historical Sites - None.

Cultural Sites - None.

12. Operator's Representative -

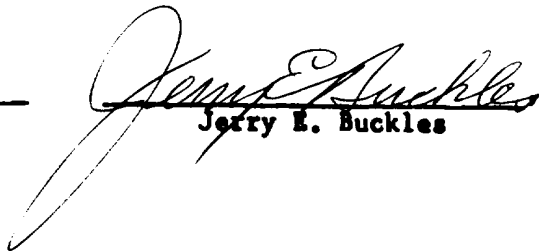
Charles E. Copeland - - - Office Phone - 677-2411
Home Phone - 396-4541

Michael L. Braswell - - - Office Phone - 677-2411
Home Phone - 677-2223

Ronny W. Tice - - - - - Office Phone - 677-2411
Home Phone - 677-2224

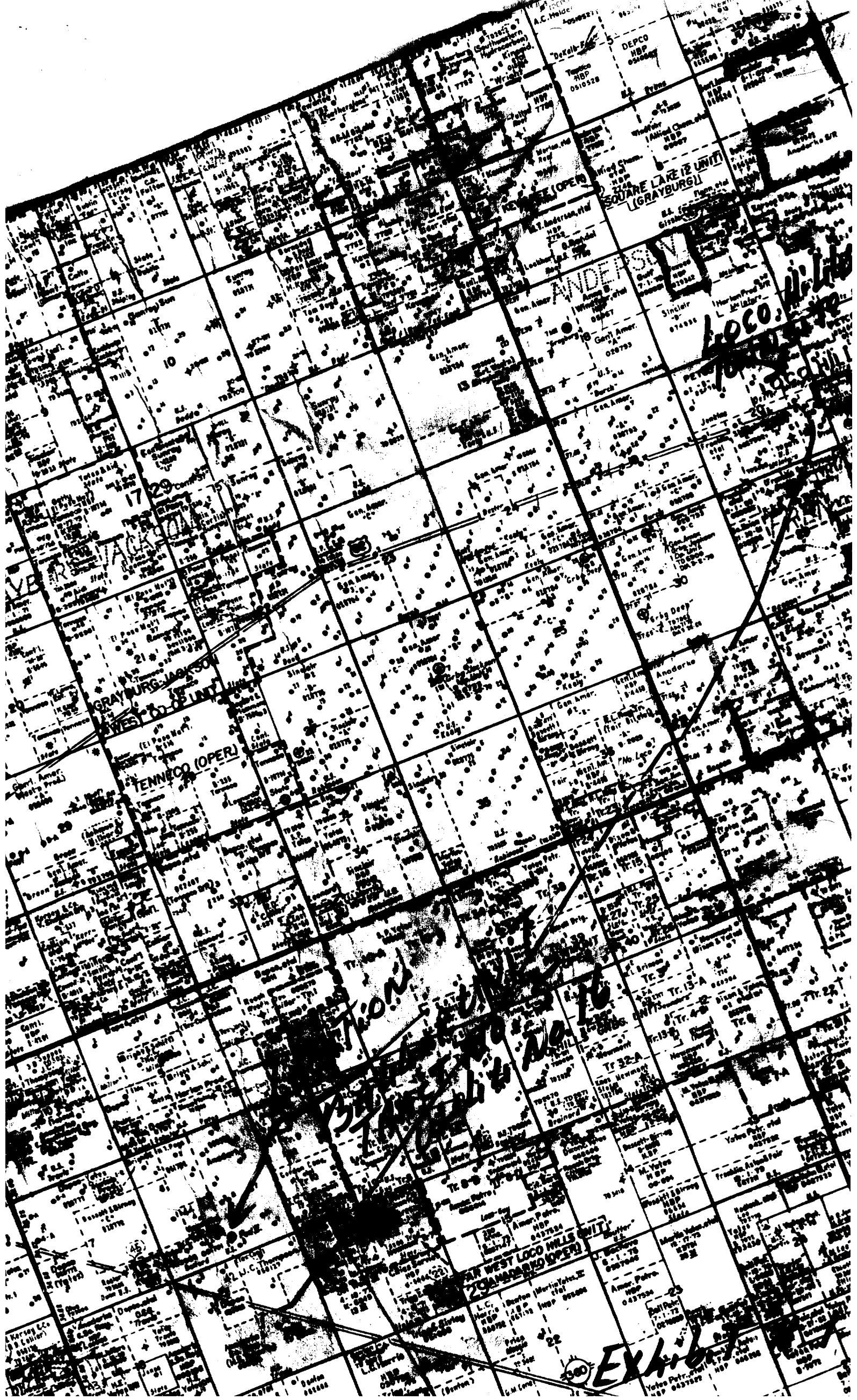
13. Certification - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drilling site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Sweatt Construction Company or Jabo Rowland Construction Company and their contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

May 14, 1981
Date



Jerry E. Buckles

Area Supervisor
Title



GRAYBURG JACKSON
WEST CO. UNIT

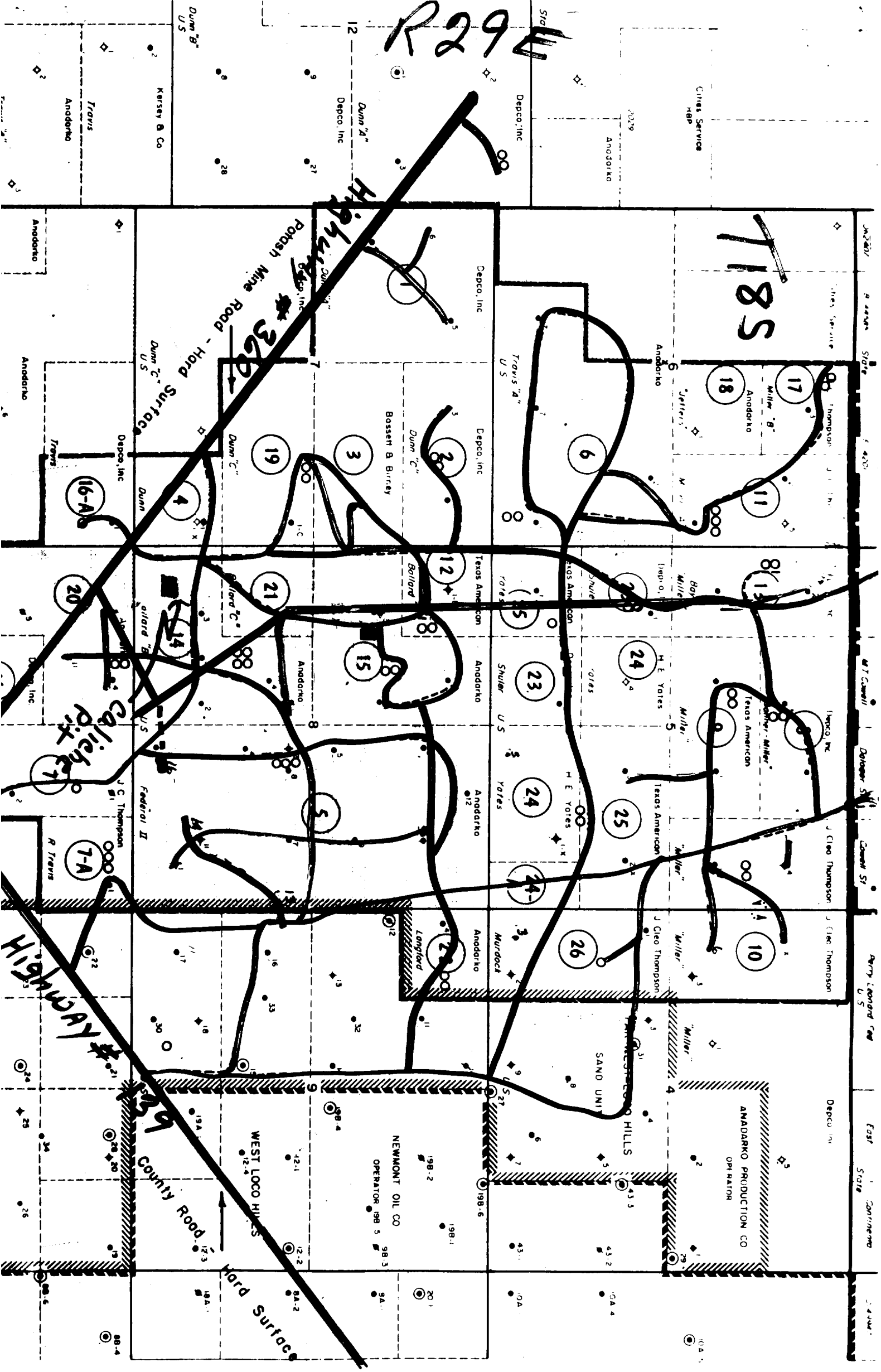
TENNECO (OPER)

SQUARE LAKE 12 UNIT
[GRAYBURG]

ANDERSON

WEST LOCO HILLS UNIT

EXHIBIT



T
18
S

0.1.1.1 #

Warton Drilling Co.
Rig 8 (12.5' x 8')

Reserve Pit
40' x 90'

Trash Pit

Working Pit

Cellar 4' x 4'

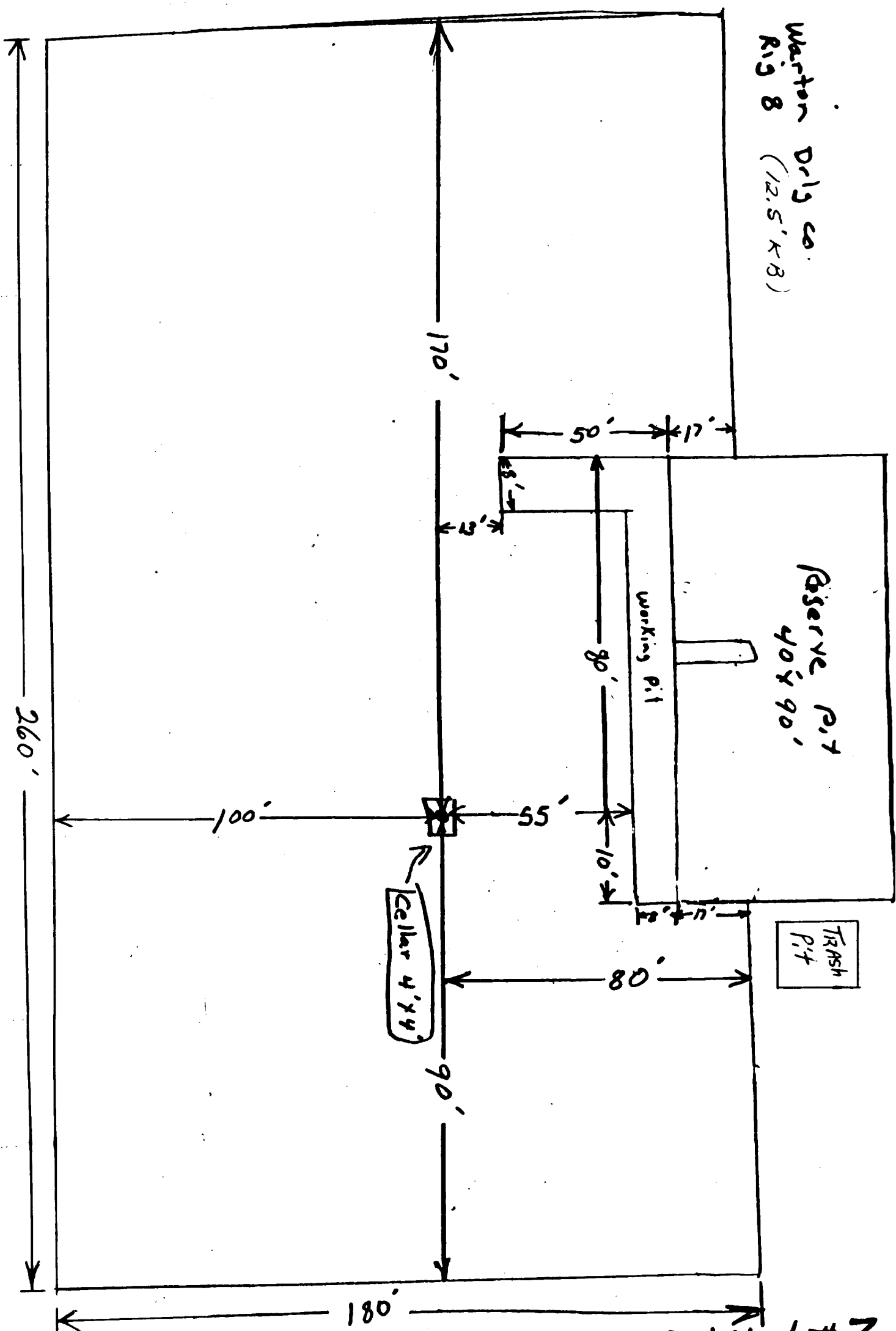
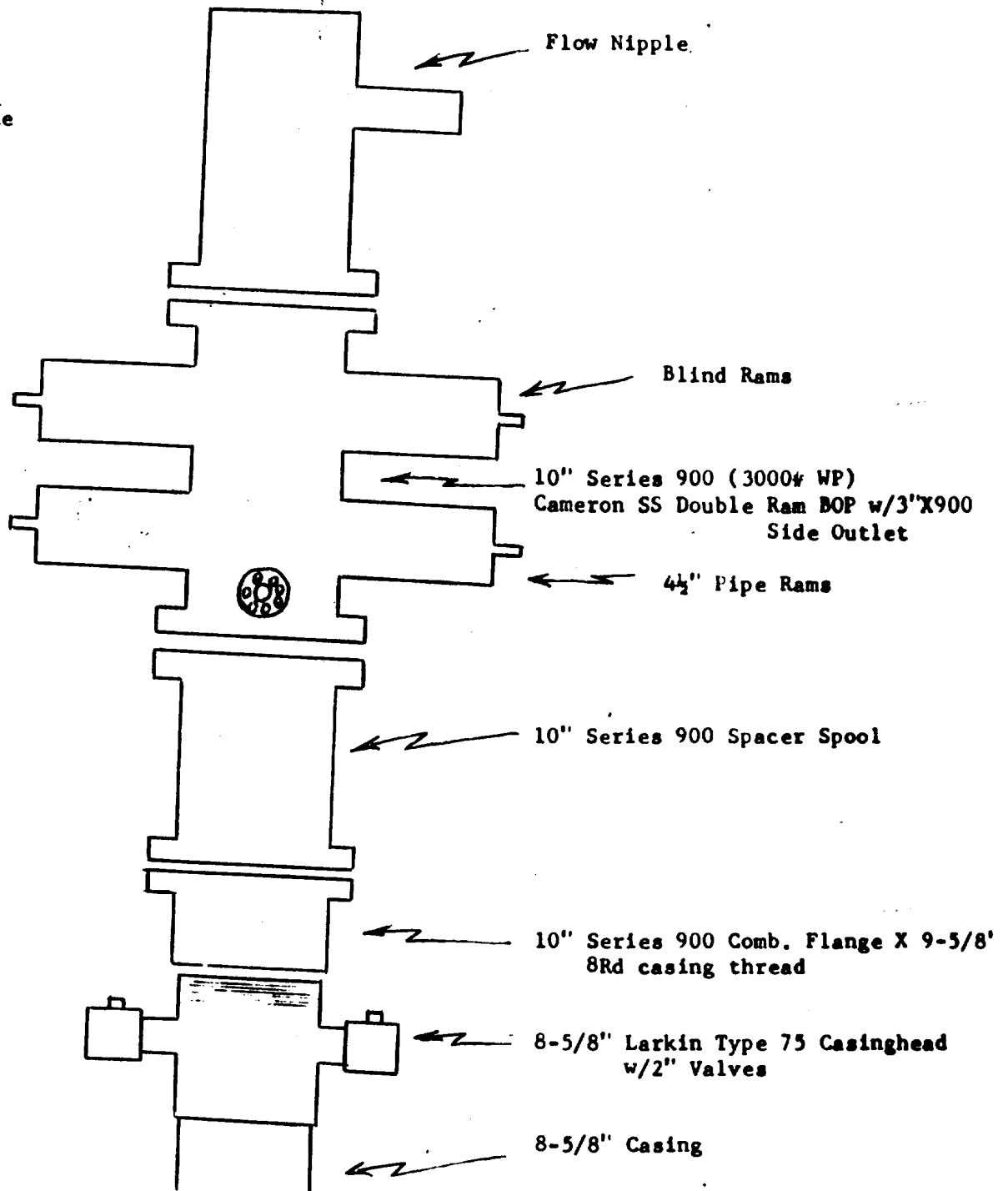


Exhibit #3

Closing Unit
4 Stage Payne



B O P Schematic

Exhibit #4

