

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

870' FSL & 660' FWL Sec. 8, T18S, R29E
Eddy County, New Mexico

At proposed prod. zone

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

Approximately 7 miles Southwest of Loco Hills Townsite

15. DISTANCE FROM PROPOSED

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drg. unit line, if any)

1980'

16. NO. OF ACRES IN LEASE

2600

18. DISTANCE FROM PROPOSED LOCATION

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

351'

19. PROPOSED DEPTH

2775'

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

3522.0 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#	2775'	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 2775'. 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 unit & place well on production.

Note: Archaeological clearance of this proposed location has been obtained & arrangements have been made with landowner 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

TITLE

Area Supervisor

DATE

May 11, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVAL DATE

APPROVED BY

(Orig. Sgd.) GEORGE H. STEWART

TITLE

CONDITIONS OF APPROVAL, IF ANY:

MAY 20 1981

FOR
JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

5. LEASE DESIGNATION AND SERIAL NO.

LC 061701

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Ballard Grayburg San Andres Unit

8. NAME OF LEASE NAME

Tract No. 14

9. WELL NO.

10. FIELD AND POOL, OR WELDCAT

Loco Hills Queen
Grayburg San Andres

11. SEC., T., R., N. OR S.E.

8 - 18S - 29E

12. COUNTY OR PARISH

Eddy

New Mexico

13. NAME OF WELL

Rotary

20. ROTARY OR CABLE TOOLS

Rotary

23. APPROX. DATE WORK WELL START

May 20, 1981

24. COMMENTS

25. COMMENTS

26. COMMENTS

27. COMMENTS

28. COMMENTS

29. COMMENTS

30. COMMENTS

31. COMMENTS

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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

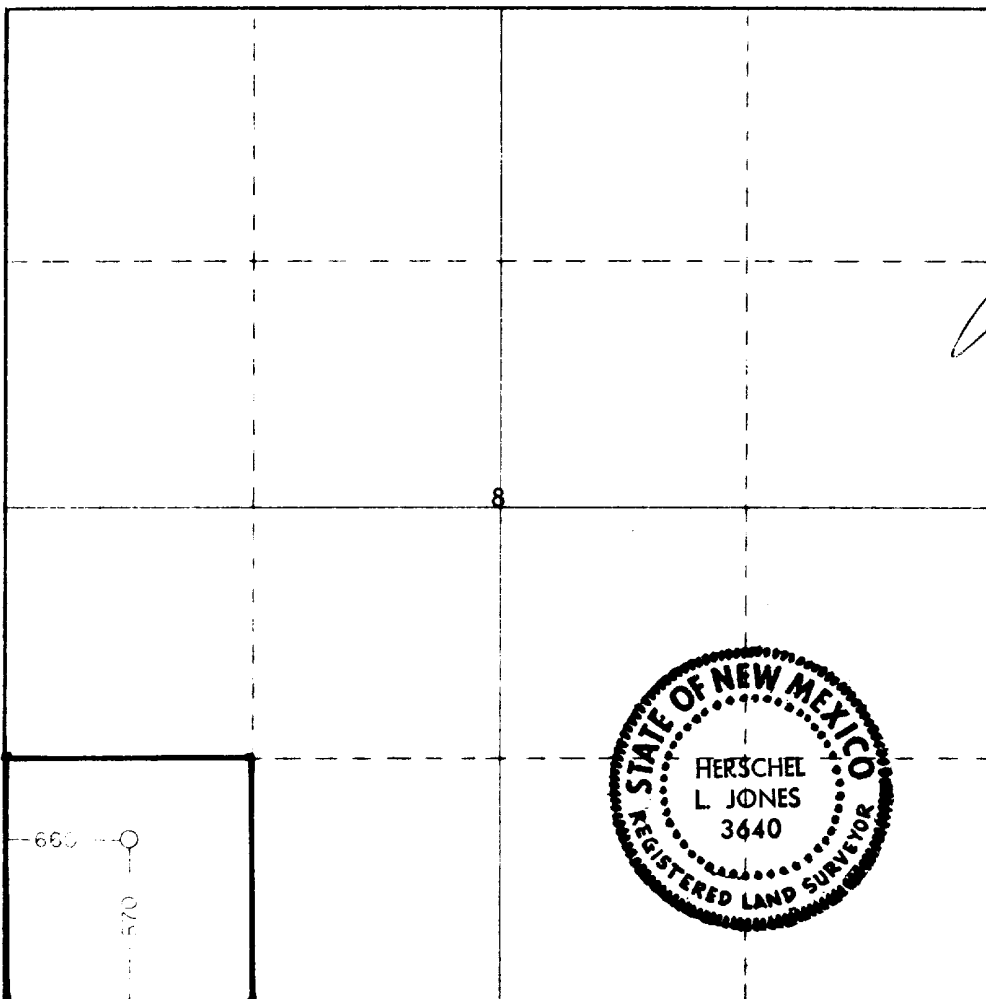
Operator AMUNDADO PRODUCTION COMPANY			Lease Ballard Grayburg San Andres ^{Unit} 14		Well No. 6
Well Letter 21	Section 8	Township 1S South	Range 29 East	County Eddy	
Actual Footing Location of Well: 870 feet from the South line and 660 feet from the West line					
Ground Level Elev. 3522.0	Producing Formation Grayburg	Pool Loco Hills-Queen Grayburg-San Andres		Dedicated Acreage 40	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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
 Position
 Area Supervisor

Company
 Amadarko Production Co.

RECEIVED
MAY 14 1981
 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

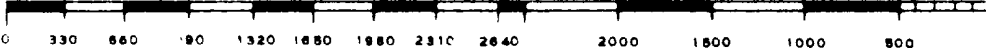
May 12, 1981

Registered Professional Engineer and/or Land Surveyor

Herschel L. Jones

Certificate No

3640



DATA SHEET

This data sheet is provided in reference to the attached Application for Permit to Drill" Anadarko's: BGSAU - Tract No. 14, Well No. 6

1. Location: 870' FSL & 660' FWL Sec. 8, T18S, R29E, Eddy County, New Mexico
2. Elevation: 3522.0 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: 2775'
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:

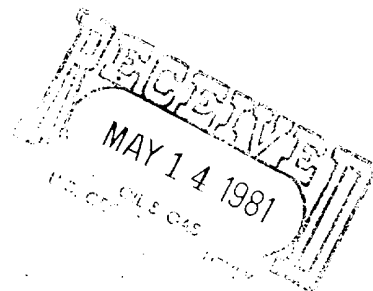
None are expected. Above described BOP should take care of any blowout problems. Numerous wells have been drilled in this area without problems.

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) 877-2411

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. 14, Well No. 6
SW/4 of SW/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.

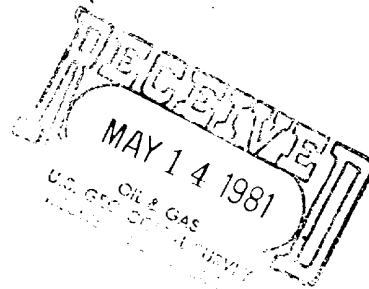
On May 11, 1981 arrangements were made with Mr. Millard Derrick (Ranch Foreman for Bogle Farms, Inc.) for the drilling of this location. Upon final abandonment, this location will be cleaned, leveled and all pits backfilled.

No other restoration stipulations were required by Mr. Derrick.

Yours very truly,


Jerry E. Buckles, Area Supervisor

JEB/rk



1/NSP 5-15-81
CL

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. 14, Well #6 located 870' FSL & 660' FWL 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 drill site.

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.

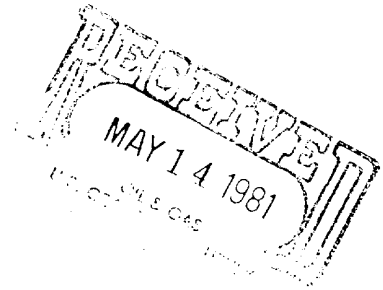
3. Location of Existing Wells - All existing wells on lease are indicated on enclosed map. There are no exploratory wells being drilled within a two mile radius.

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 Section 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.

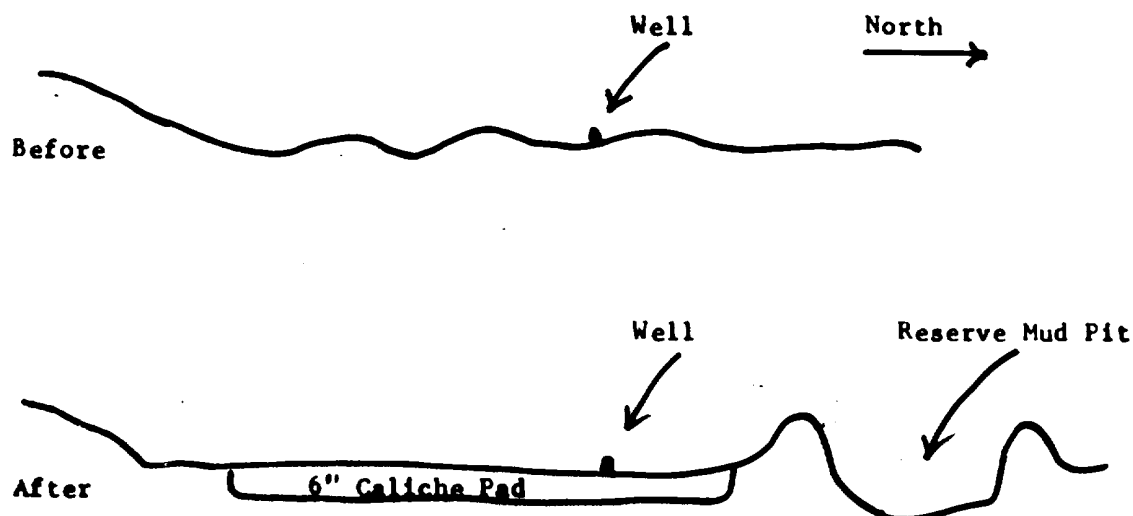


7. Methods for Handling Waste Disposal - Enclosed drill site plat (Exhibit #3) indicates location of drilling pits, reserve pit and rubbish pit. After sufficient time has elapsed to allow drilling fluids to dry, all pits will be closed and leveled. The rubbish pit adjacent to drilling site will be deep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

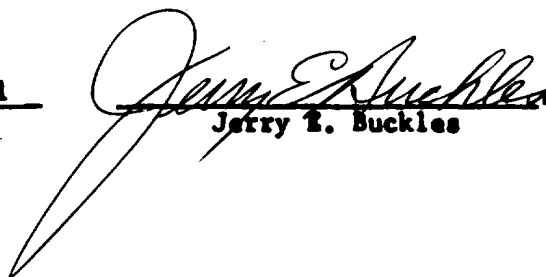
Ronny W. Tice - - - - - Office Phone - 677-2411

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

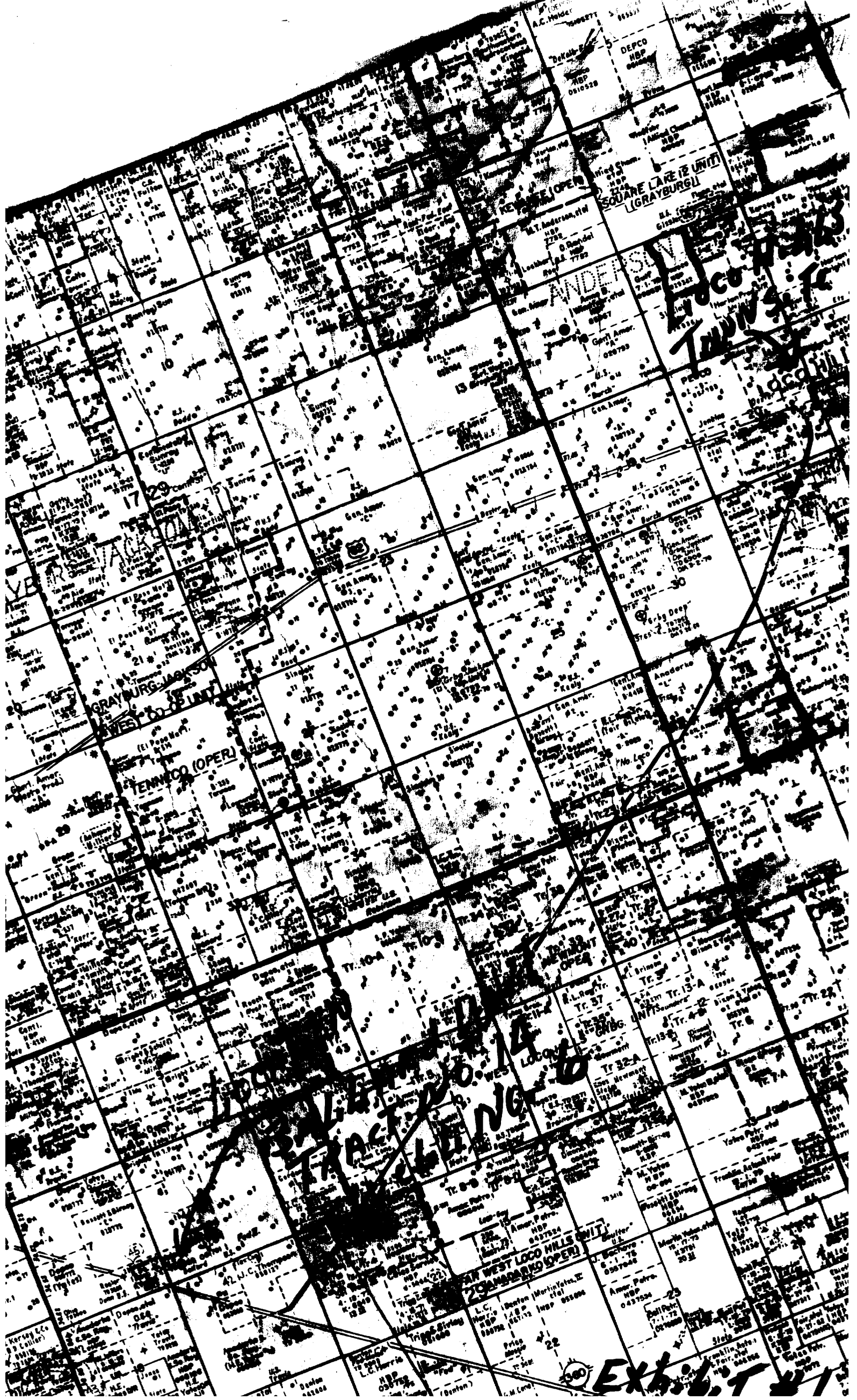
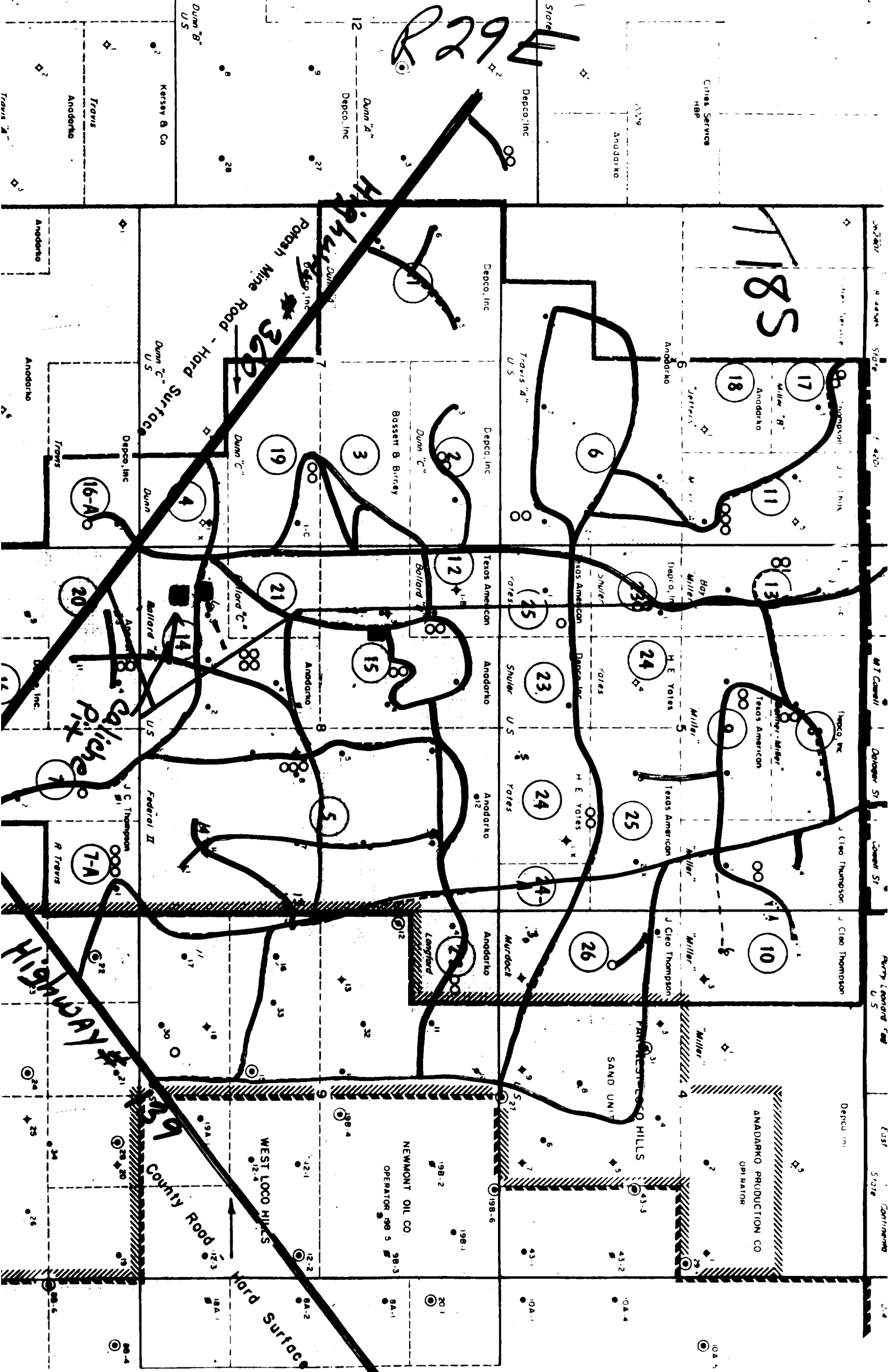


EXHIBIT 1



58.1

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

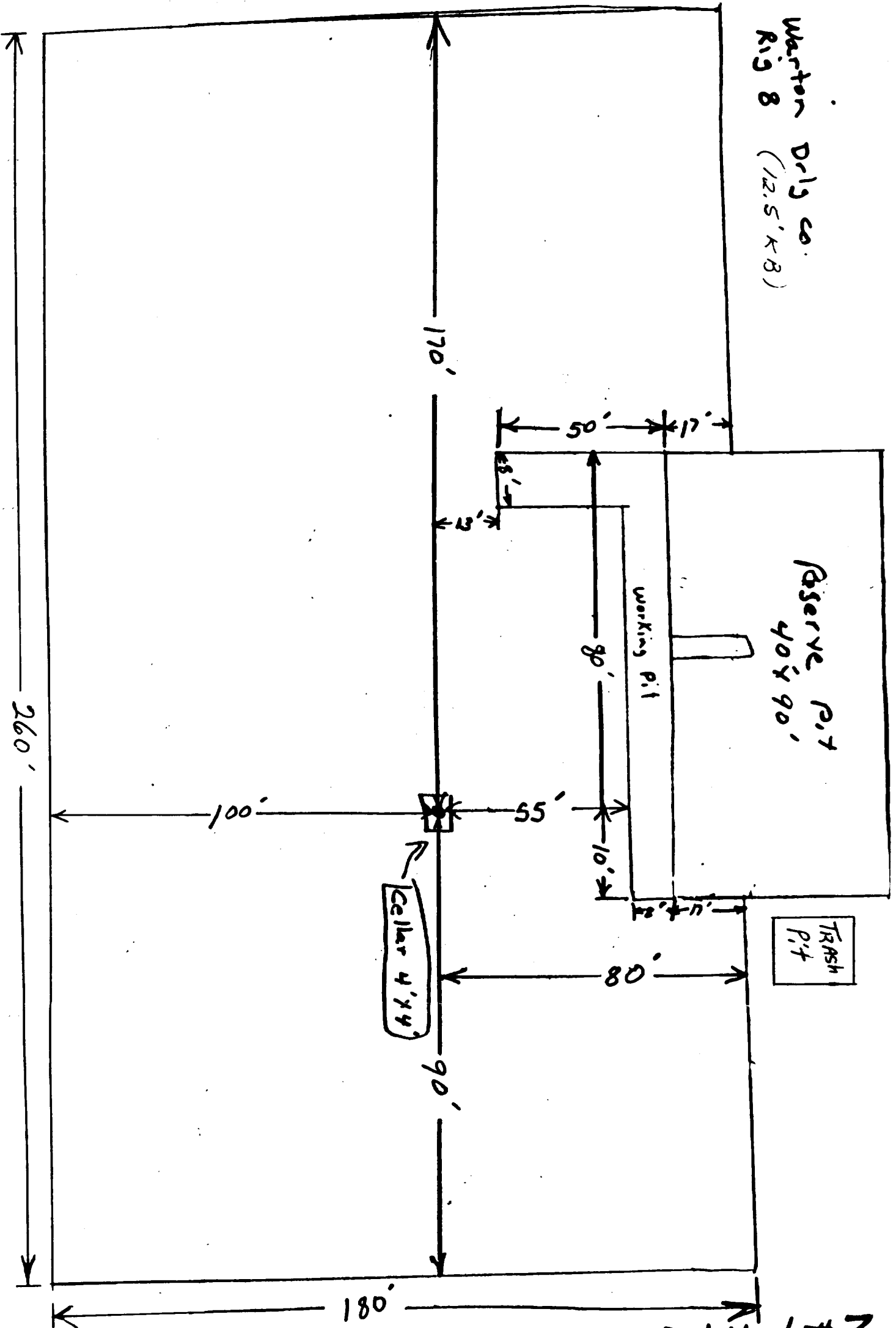
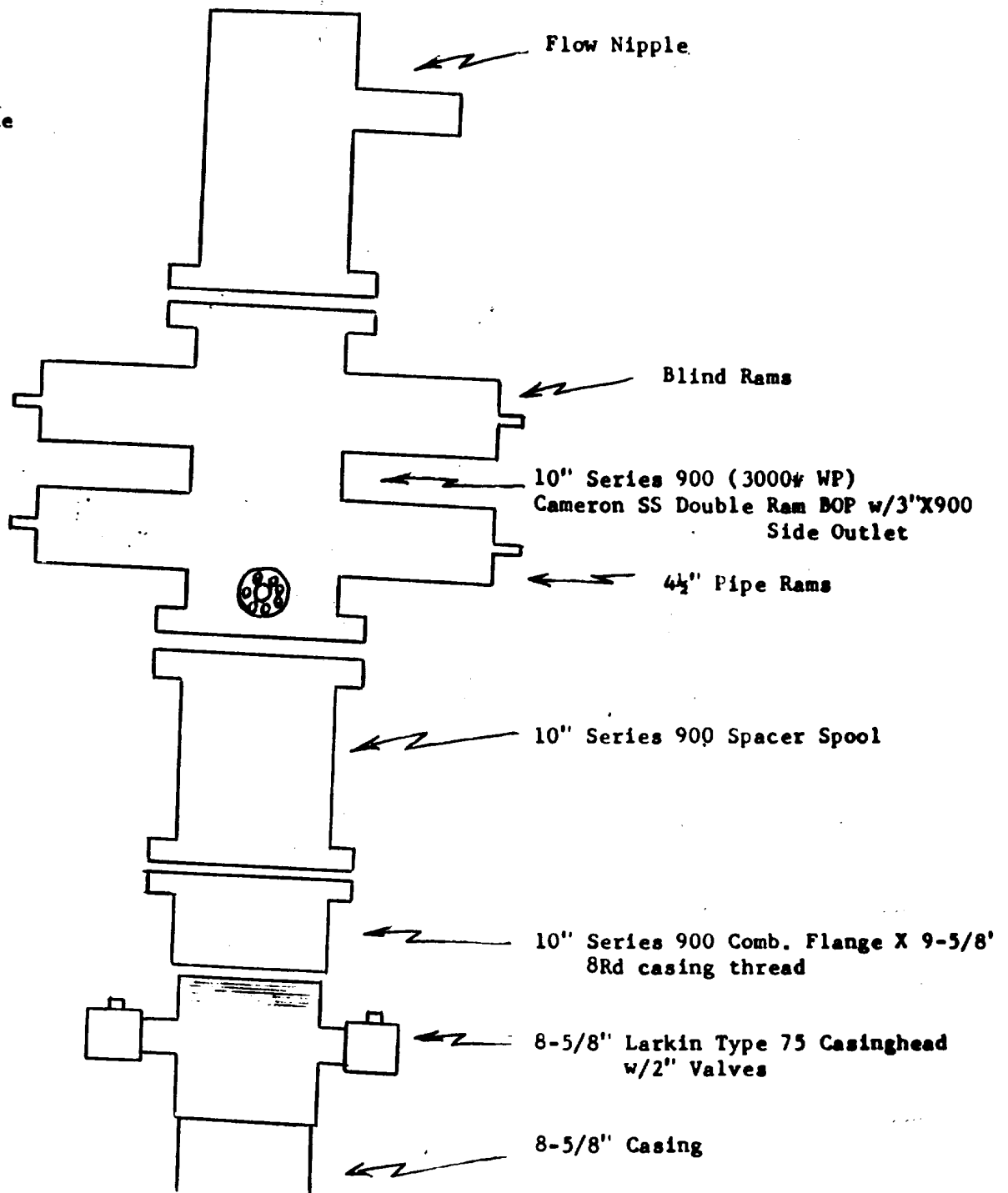


Exhibit #3

Closing Unit
4 Stage Payne



B O P Schematic

Exhibit #4