

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

C/SF

30-015-23755

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

960' FNL & 1130' FEL, Sec. 8, T18S, R29E

At proposed prod. zone Same

Eddy County, New Mexico

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

Approximately 7 miles Southwest of Loco Hills Townsite

10. DISTANCE FROM PROPOSED*

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

1159'

16. NO. OF ACRES IN LEASE

2600

17. NO. OF ACRES ASSIGNED

TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

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

146'

19. PROPOSED DEPTH

2850'

20. ROTARY OR CABLE TOOLS*

Rotary

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

3516.1 GL

22. APPROX. DATE WORK WILL START*

April 20, 1981

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'	200sx-Circulated
7-7/8"	4-1/2"	10.5#	2850'	750sx-900'

1. Rig up rotary tools.

2. Drill to approximately 350'; set & circulate or ready-mix cement to surface on 8-5/8" casing. Install & test Series 900 Double Ram Hydraulic Blowout Preventor.

3. Drill to T D (approximately 2850'); run Open Hole logs.

4. Set & cement 4 1/2" casing at T D.

5. Perforate, acidize and fracture treat Grayburg zone.

6. Run 2-3/8" tubing, rods & bottom-hole pump; install pumping equipment and place well on production.

Note: A check in payment of Surface damages has been mailed to Bogle Farms, Inc.

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

April 13, 1981

(This space for Federal or State official use)

APPROVED

PERMIT NO.

(See Sec.) GEORGE H. STEWART

APPROVAL DATE

APPROVED BY

APR 17 1981

TITLE

CONDITIONS OF APPROVAL, IF ANY

FOR

JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

APR 15 1981

U.S. GEOLOGICAL SURVEY
ROSWell, NEW MEXICO5. LEASE DESIGNATION AND SERIAL NO.
LC 050906

6. IF INDIAN, ALLOTTED OR TRIBE NAME

7. UNIT AGREEMENT NAME
Ballard Grayburg
San Andres Unit8. TRACT OR LEASE NAME
Tract No. 1 APR 20 19819. WELL NO.
15 O. C. D.10. FIELD AND POOL, OR WING AREA, OFFICE
Loco Hills-Queen-
Grayburg-San Andres11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
11-A
8 - 18S - 29E12. COUNTY OR PARISH 13. STATE
Eddy New MexicoPosted ID-1
API + NL Bank
4-24-81NSL
1350

4-9-81

N. MEXICO OIL CONSERVATION COMMISS
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

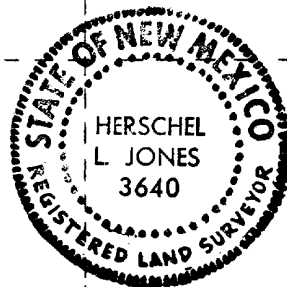
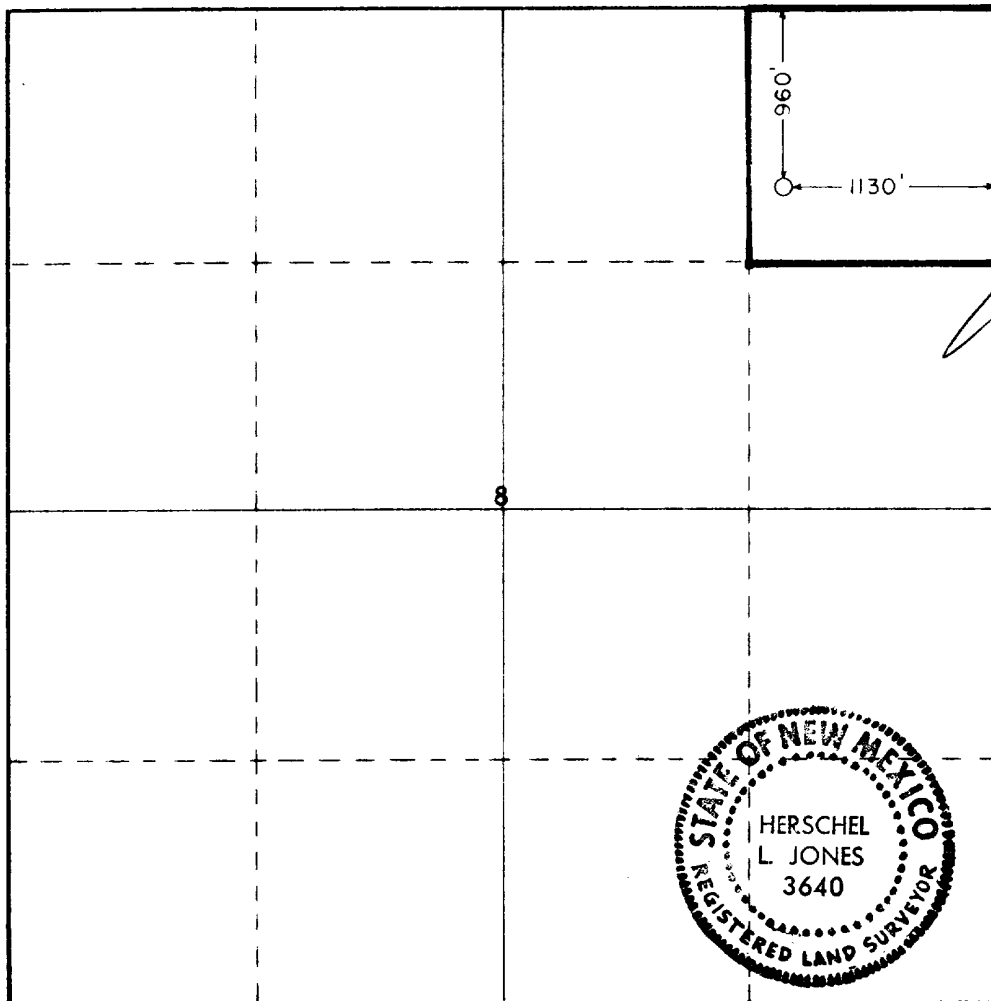
Operator ANADARKO PRODUCTION COMPANY			Lease Ballard Grayburg SA Unit Tract 5		Well No. 15
Unit Letter 'A'	Section 8	Township 18 South	Range 29 East	County Eddy	
Actual Footage Location of Well: 960 feet from the North line and 1130 feet from the East line					
Ground Level Elev. 3516.1	Producing Formation Grayburg		Pool Loco Hills- Queen- Grayburg- San Andres		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 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.

Name Jerry E. Buckles
 Position Area Supervisor
 Company Anadarko Production Co.

Date APR 15 1981

I hereby certify that the well location shown on this plat is 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 March 24, 1981
 Registered Professional Engineer and/or Land Surveyor

Certificate No. 3640



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

April 9, 1981

RECEIVED

APR 14 1981

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

O. C. D.
ARTESIA, OFFICE

Anadarko Production Company
P. O. Box 2497
Midland, Texas 79702

Attention: Cris G. Rhodes

Administrative Order NSL-1350

Gentlemen:

Reference is made to your application for approval of a non-standard location for your Ballard Grayburg San Andres Unit Tract 5 Well No. 15 to be located 960 feet from the North line and 1130 feet from the East line of Section 8, Township 18 South, Range 29 East, NMPM, Loco Hills Pool, Eddy County, New Mexico.

By authority granted me under the provisions of Order (6) of Order No. R-4493, the above-described unorthodox location is hereby approved.

Sincerely,

JOE D. RAMEY,
Director

JDR/RLS/dr

cc: Oil Conservation Division - Artesia
Oil & Gas Engineering Committee - Hobbs
U. S. Geological Survey - Artesia

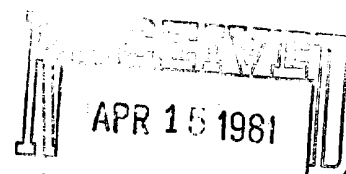
DATA SHEET

This data sheet is provided in reference to the attached "Application for Permit to Drill" Anadarko's Ballard Grayburg San Andres Unit Tract No. 5, Well No. 15.

1. Location: 960' FNL & 1130' FEL Sec. 8, T18S, R29E, Eddy County, New Mexico
2. Elevation: 3516.1 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: 2850'
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#, K-55 - New
4-1/2" - 10.5#, K-55 - New
9. Setting Depth of Casing:
8-5/8" - 350' 200 Sx cement
4-1/2" - 2850' 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. Koomey 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.

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 April 21, 1981. Approximately 6 days will be required to drill the well and 2 weeks for completion.

15. Other Facets:

None

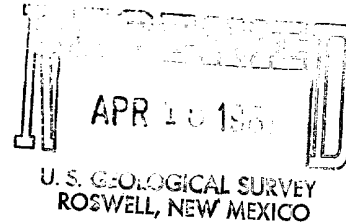
Anadarko
PRODUCTION COMPANY

P. O. Box 87 • Loco Hills, New Mexico 88255 • (505) 677-2411

A
Panhandle
Eastern
Company

March 27, 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. 15 located 960' FNL & 1130' 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 lease roads are shown in orange. The nearest caliche road is now located on the North side of this proposed location.

2. Planned Access Roads - No new road will be required. 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.

Source of power will be from existing Central Valley Electric Coop., Inc. power lines located 265' East of the Drill site location. Exhibit #2 shows the route of the new power pole installation in dashed yellow. This route has been recommended for clearance by the inspecting archaeologist.

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.

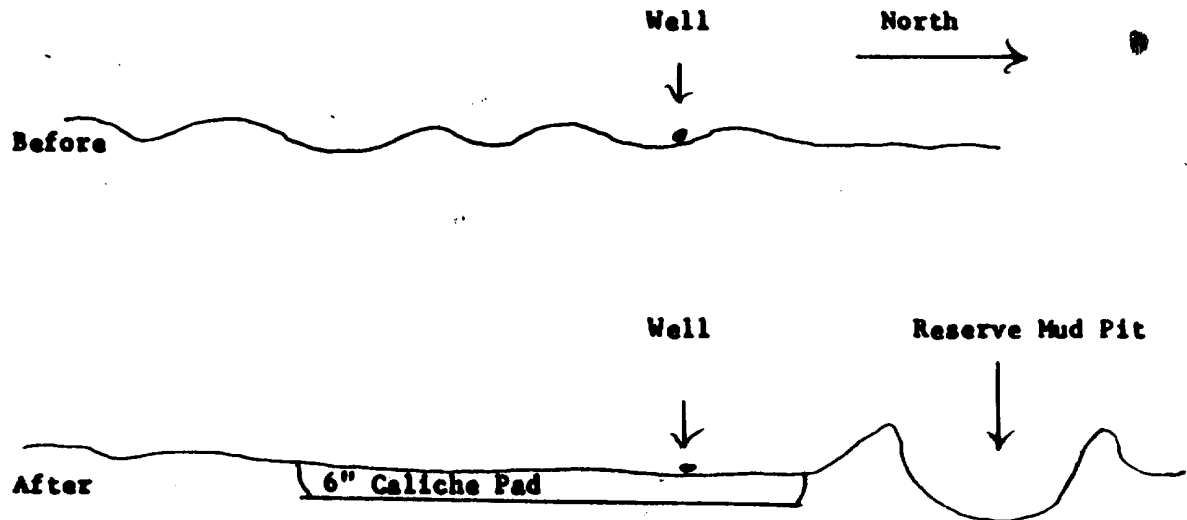
6. Source of Construction Material - Primary source of caliche will be the reserve pit area of the new drilling location. Alternate source will be an existing caliche pit located in the NW/4 of Section 9 owned by Anadarko.

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 - No new road was required.
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 - Leased grazing land.

11. Other Information - continued.

Surface Ownership - Private land.

Water Wells - None.

Lakes, Streams and Ponds - None.

Dwellings - None.

Other Facilities - None.

Archaeological Sites - None.

Historical Sites - None.

Cultural Sites - None.

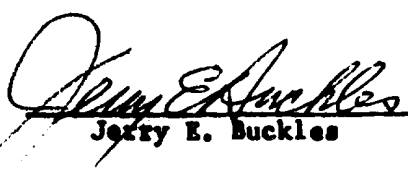
12. Operator's Representative -

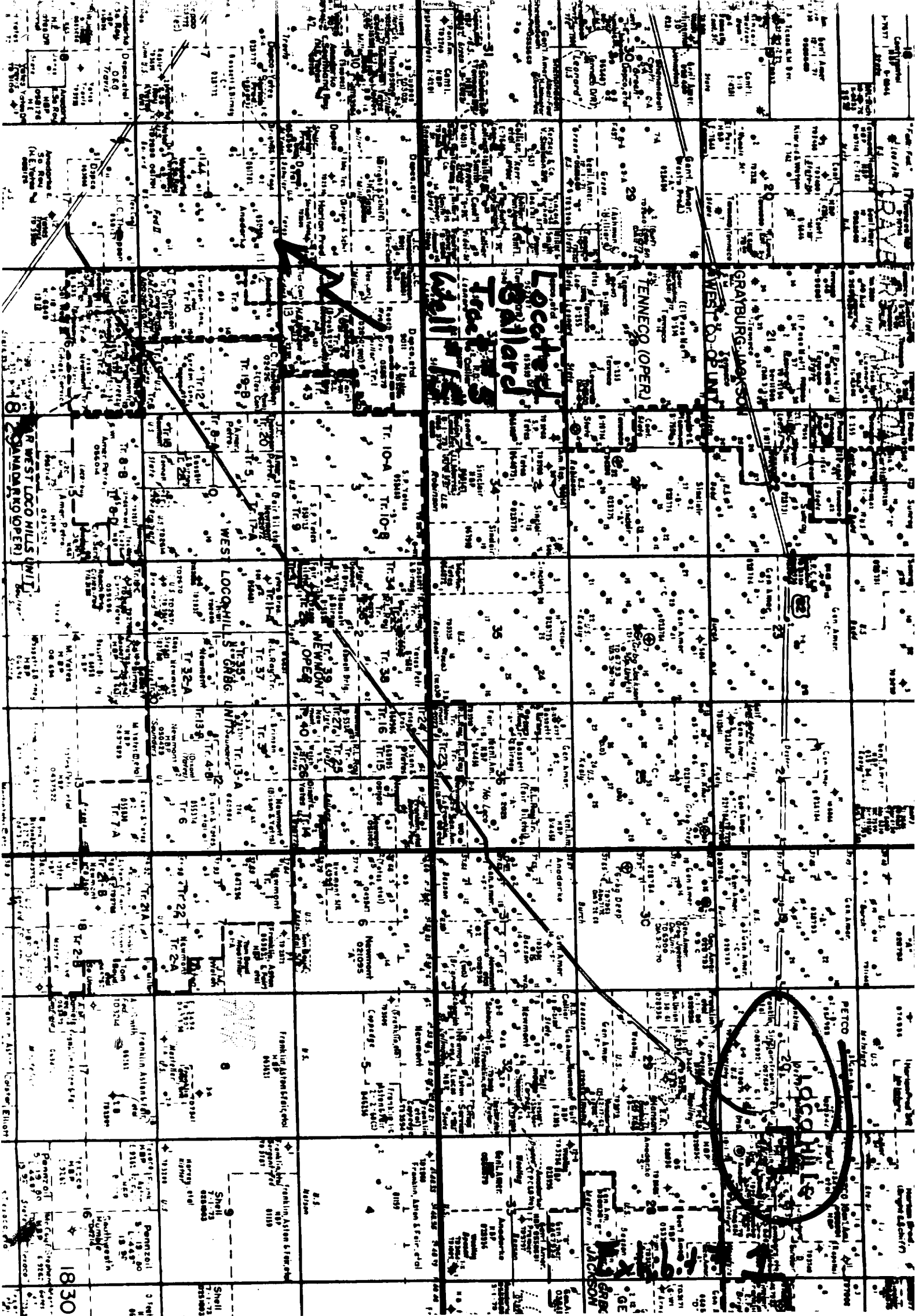
Charles E. Copeland - - - Office Phone - 677-2411
Home Phone - 396-4541

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

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.

March 27, 1981
Date


Jerry E. Buckles, Area Supervisor
Title



Locality
Trail

GRAYBURG, JACKSON

TENNECO (OPER)

WEST LOCOMILL

LOCOMILL

FRANKLIN

1000 HILLS

JACKSON

1830

Existing Flow Lines

Legend:

- Powerlines - Yellow
- Highway 360 - Blue
- Highway 139 - Blue
- Planned Road - Dashed Green
- Proposed Flowline - Dashed Blue
- Caliche Road - Orange
- Caliche Pit - Green
- Location - Red

Map Labels:

- Anadarko
- Depco, Inc.
- Texas American
- Shuler
- Yates
- H.E. Yates
- J.C. Thompson
- R. Travis
- Federal II
- Anadarko
- Depco, Inc.
- Travis
- Highway 139
- Caliche Pit
- Potash Mine Road - Hard Surface
- Dunn C U.S.
- 5-15

Survey Mid Continent

R 295

- | | |
|-------------------|----------------|
| Powerlines | - Yellow |
| Highway 360 | - Blue |
| Highway 139 | - Blue |
| Planned Road | - Dashed Green |
| Proposed Flowline | - Dashed Blue |
| Caliche Road | - Orange |
| Caliche Pit | - Green |
| Location | - Red |

Exhibit #2

R 295

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

Reserve P.T
40x90'

Working Pit

Cellar 4' x 4'

X = where entrance Road may be Built

Exhibit #3