COPY TO O. C. C.

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: NM-801

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: -

8. FARM OR LEASE NAME: Billiams

9. WELL NO.: 8

10. FIELD AND POOL, OR WILDCAT: Maljamar GB/San Andres

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 34, 17-S, 33-E

12. COUNTY OR PARISH: Lea

13. STATE: New Mexico

1a. TYPE OF WORK: DRILL [x] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [x] GAS WELL [ ] OTHER SINGLE ZONE [x] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Phillips Petroleum Company

3. ADDRESS OF OPERATOR: Room 401, 4001 Penbrook Street, Odessa, Texas 79762

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
At proposed prod. zone: 2310' FN & 330' FE lines

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: approximately 8 miles southeast of Maljamar

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any): 330' FE

16. NO. OF ACRES IN LEASE: 160

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.: first well

19. PROPOSED DEPTH: 4800'

20. ROTARY OR CABLE TOOLS: rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4138.3' (unprepared)

22. APPROX. DATE WORK WILL START*: upon approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	32# K-55	425'	300 sx Class H w/2%CaCl2 & ¼#Flocel/sx. Circ at surface
6 3/4"	4 1/2"	11.6#, N-80	4800'	Sufficient Trinity LW w/12#salt/s (w/10%DD, ¼#Flocele/sx, 3# Gilsonite/sx - (volume to be determined by caliper log, (followed by 150 sx Class H w/8# salt/sx. (Circulate at surface.)

Use mud additives as required for control per attached mud program.

BOP Equipment: Series 900, 3000# WP per Figure 7 schematic attached.

RECEIVED
DEC 13 1978
U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

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 Ralph Roper Ralph Roper TITLE Senior Reservoir Engineer DATE 12-7-78

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED AS AMENDED
DEC 29 1978
James F. Sims
JAMES F. SIMS
DISTRICT ENGINEER

*See Instructions On Reverse Side

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	Lease	Well No.
Phillips Petroleum Co.	Eilliams	8

Unit Letter	Section	Township	Range	County
E	34	17 South	33 East	Lea

Actual Footage Location of Well: 2310 feet from the North line and 330 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
4138.3	San Andres -	Maljamar Gb/San Andres	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

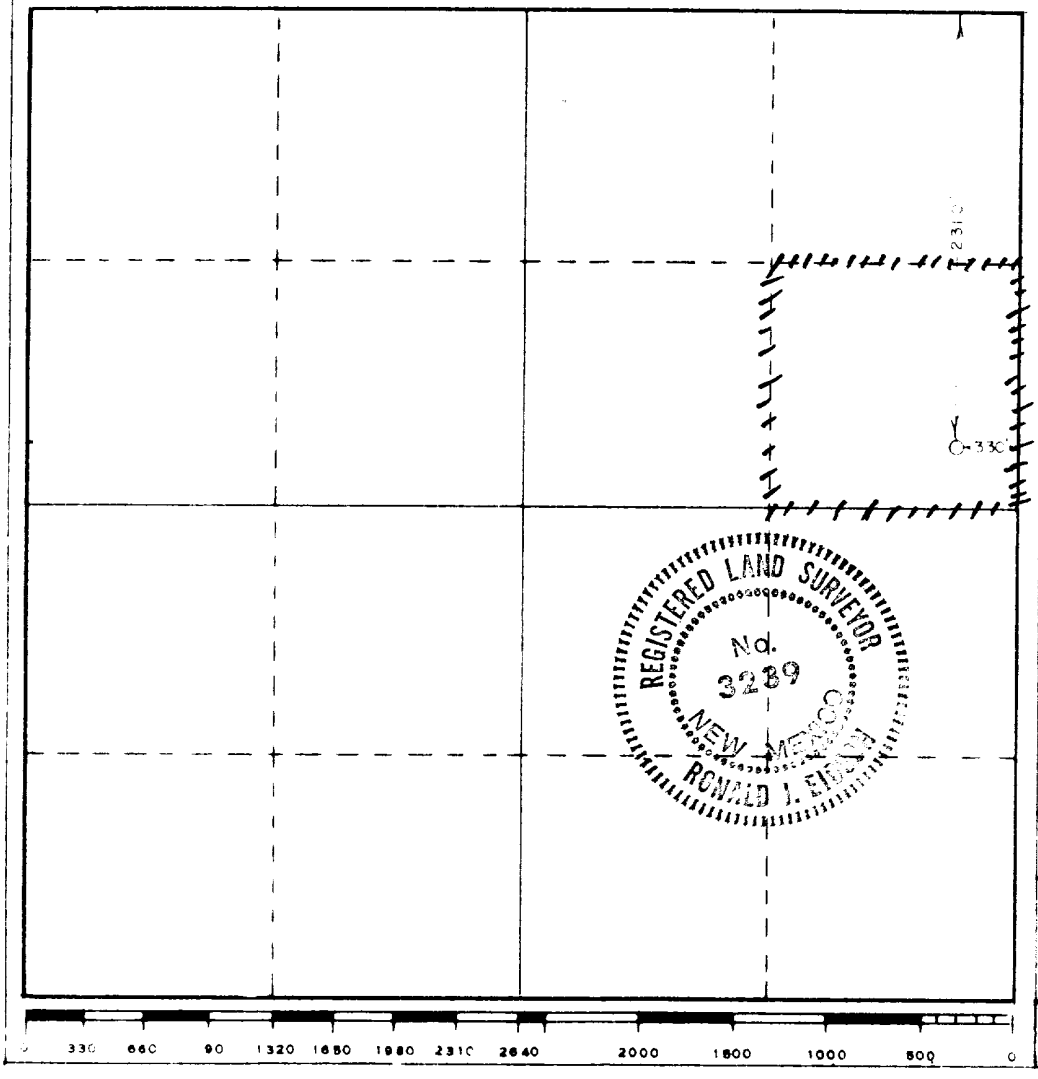
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.

Name: Ralph Roper *Ralph Roper*

Position: Senior Reservoir Engineer

Company: Phillips Petroleum Company

Date: December 7, 1978

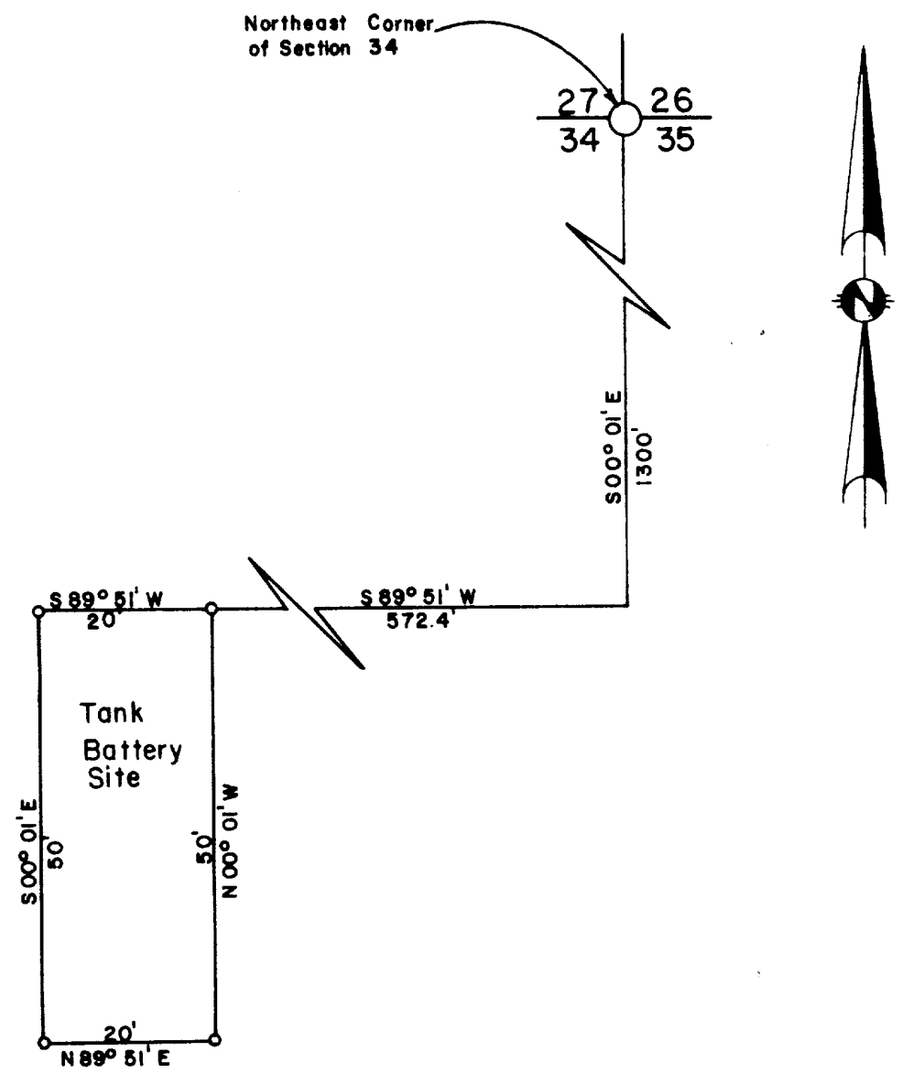
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: December 1, 1978

Registered Professional Engineer and/or Land Surveyor

Ronald J. Eidson

Certificate No. John W. West 676
Ronald J. Eidson 3239



LEGAL DESCRIPTION

A Tract of land in the Northeast Quarter of Section 34, Township 17 South, Range 33 East, N. M. P. M., Lea County, New Mexico, and being more particularly described as follows:

Beginning at a point which lies S 00° 01' E a distance of 1300.0 feet and S 89° 51' W a distance of 572.4 feet from the Northeast Corner of said Section 34; Thence S 89° 51' W a distance of 20.0 feet to a point; Thence S 00° 01' E a distance of 50.0 feet to a point; Thence N 89° 51' E a distance of 20.0 feet to a point; Thence N 00° 01' W a distance of 50.0 feet to the Point of Beginning, containing 0.023 Acres, more or less.

REGISTERED LAND SURVEYOR
No. 3239
NEW MEXICO
RONALD J. EIDSON

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Ronald J. Eidson

JOHN W. WEST N.M. P.E. & L.S. NO.676
TEXAS R.P.S. NO. 1138

RONALD J. EIDSON, N.M. L.S. NO. 3239
TEXAS R.P.S. NO. 1883

PHILLIPS PETROLEUM CO.

A Tract of land located in the Northeast Quarter of Section 34, Township 17 South, Range 33 East, N. M. P. M., Lea County, New Mexico.

JOHN W. WEST ENGINEERING COMPANY
CONSULTING ENGINEERS HOBBS, NEW MEXICO

Scale: 1" = 20'	Drawn by: EWR
Date: December 2, 1978	Sheet 1 of 1 Sheets

(22)

M E M O R A N D U M

Odessa, Texas
October 17, 1973

In re: Proposed Mud Program - Williams No. 8, Dublin Queen Pool - 4400' T.D. San Andres Test. Section 34, T-17S, R-32E, Lea County, New Mexico.

To: Mr. G. B. Keckler

From: Mr. R. A. Evenson

Surface - 400' of 8 5/8" Casing.

Spud with Flosal*, lime and bentonite mixed to a high viscosity. Circulate through controlled section of the reserve pit. Maintain sufficient viscosity to clean hole and insure running of casing.

Below Surface to 4400' T.D.

Drill out with fresh water while circulating through the reserve pit. Allow native viscosity to build up to 31 to 33 sec. per quart out. Prior to drilling "redbeds" mix 10 sacks of Coltex*. At 1700' start maintaining the system with 10 lb. brine.

Prior to drilling the Queen section at approximately 3600', start maintaining the viscosity at 33 to 35 sec. per quart out with Flosal and salt water clay as needed. Good samples will be required from 3600' to T.D.

At 4400', mud up in controlled section of the reserve pit or steel mud pits. Then mix sufficient amount of soda ash to reduce total hardness. Next mix Drispac* and starch at a ratio of 1 sack of Drispac to [illegible] sacks of starch. Use Flosal as needed to control viscosity. Maintain the following mud properties: Viscosity 34 to 38 sec. per quart out, Weight 10.2 lbs. per gal. or less and Fluid Loss 20 cc or less. In case of loss mix Flosal and paper as required. Prior to reaching T.D. should hole conditions dictate, increase viscosity to insure running of open hole logs and casing. The mud engineer shall include on each test report the daily cost to date for the previous 24 hr. period and also the cumulative mud cost to date for the well.

Any deviations from this mud program must be approved by the Phillips drilling department and Drilling Specialties Company.

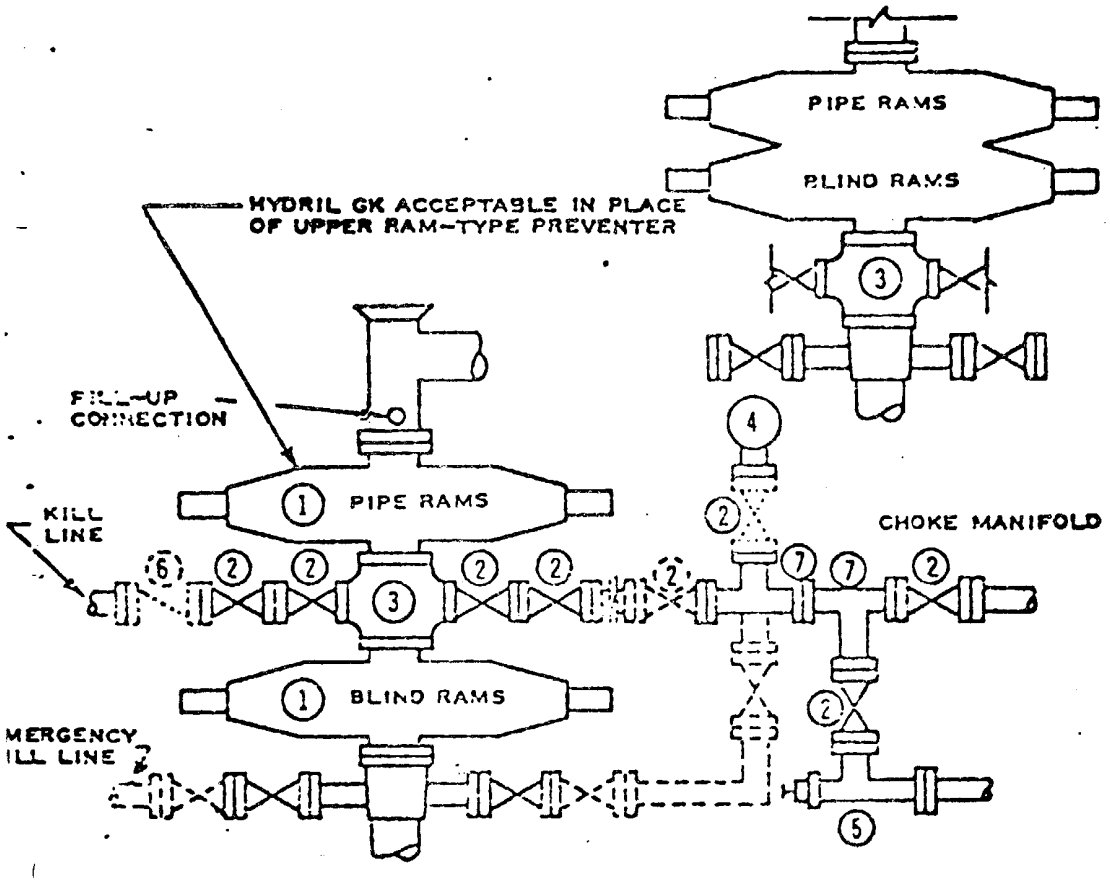
* A Trademark

cc: Messrs. M. L. DeKee
L. D. Troth
W. W. Allen
J. S. Williams
J. W. Senars
W. J. Mueller
W. H. Morrison
Mud Supplier
Drilling Contractor
Drilling Specialties Co. (2)
Houston Central Files
Odessa Central Files

Mud Additives Required on Initial Load.
(to be placed on pallets and covered)

Bentonite	25 Sacks
Lime	[illegible] Sacks
Coltex	10 Sacks
Paper	10 Sacks
Drispac	Sacks
Starch	[illegible] Sacks
Soda Ash	10 Sacks
Flosal	20 Sacks
Salt Water Clay	20 Sacks

DOUBLE PREVENTER OPTION



1. SERIES 900 RAM-TYPE BOP
2. 2" SERIES 900 VALVE
3. SERIES 900 DRILLING SPOOL
4. 2" MUD PRESSURE GAUGE
5. 2" SERIES 900 CHOKE
6. 2" SERIES 900 CHECK VALVE
7. 2" SERIES 900 STEEL TEE

NOTES:

1. 3000 PSI WP CLAMP HUBS MAY BE SUBSTITUTED FOR FLANGES
2. VALVES MAY BE EITHER HAND OR POWER OPERATED BUT, IF POWER OPERATED, THE VALVES FLANGED TO THE BOP RUN MUST BE CAPABLE OF BEING OPENED AND CLOSED MANUALLY OR CLOSE ON POWER FAILURE AND BE CAPABLE OF BEING OPENED MANUALLY

..... OPTIONAL EQUIPMENT

PHILLIPS PETROLEUM COMPANY

3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

(SERIES 900 FLANGES OR BETTER)

REV 6/73

FIGURE NO. 7

INITIAL INSTALLATION TEST OF BLOWOUT PREVENTER AND CHOKE MANIFOLD SYSTEM FOR INSTALLATION AS SHOWN ON FIGURE NO. 7

After equipment is installed, the following procedure is to be followed to pressure test the assembly prior to drilling out cement and casing shoe.

1. Inspect installation thoroughly to assure that all bolts and fittings are in place and tight. (Leave check valve and kill line off at this time)

2. With water hose, wash internals of preventer, bradenhead valves and choke manifold system clean.

3. Close the two manifold valves and the outside bradenhead valve on the kill side.

4. With water hose, fill preventer to top with clean water, removing all trapped air.

5. Close blank rams.

6. With hydraulic pump connected to ½" NPT Cplg., pressure preventer, bradenhead, casing and outside valves to 1000 PSI for 10 minutes. Check for leaks and correct.

7. Release pressure, close outside bradenhead valve on choke side and inside valve on kill side. Now open the two choke manifold valves and the outside bradenhead valve on the kill side.

8. Again, pressure system to 1000 PSI for 10 minutes. Check for leaks of the two closed bradenhead valves and correct as necessary.

9. Release pressure, close inside bradenhead valve on choke side, open outside valve.

10. Again, pressure system to 1000 PSI for 10 minutes. Check for leaks and correct.

11. Release pressure, then open blank rams.

12. Run bit and drill collars and one joint of drill pipe. Install drill pipe safety valve on the drill pipe.

13. Flush inside of preventer clean with water. With both inside bradenhead valves closed, fill preventer to top with water removing all trapped air.

14. Close pipe rams on pipe.

15. Pressure system to 1000 PSI for 10 minutes. Check for leaks and correct.

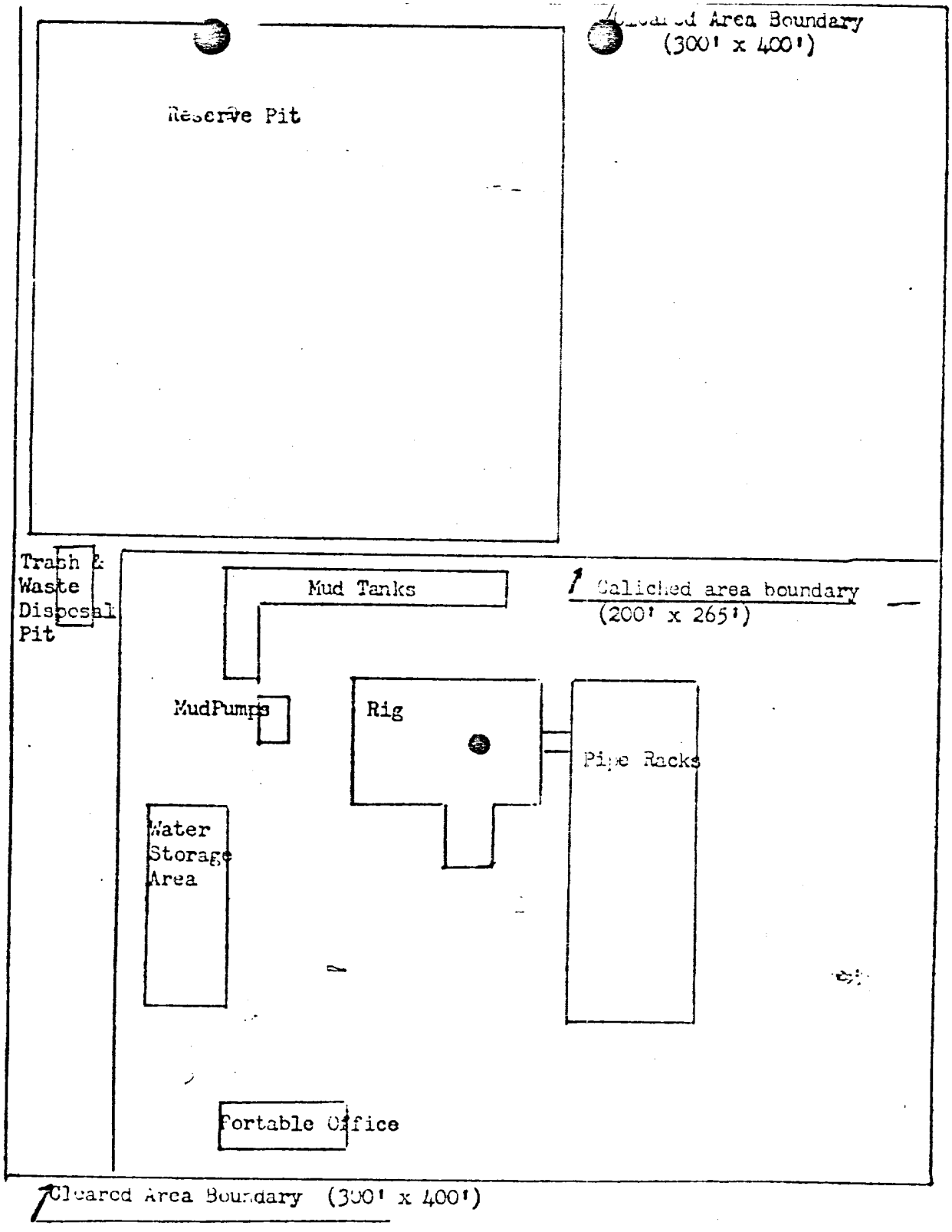
16. Release pressure on system, then open pipe rams.

INITIAL INSTALLATION TEST OF BLOWOUT PREVENTER AND CHOKE MANIFOLD SYSTEM FOR INSTALLATION AS SHOWN ON FIGURE NO. 7 (Cont'd)

17. Keep both inside bradenhead valves closed while drilling to prevent plugging by cuttings. Keep both outside bradenhead valves and choke manifold valves open.

18. Reconnect kill line.

19. Enter results of test on tour sheet.



PHILLIPS PETROLEUM COMPANY

BARTLESVILLE, OKLAHOMA

Development Plan For Surface Use - New Drilling Well

REVISION	BY	DATE	DRAWN		AFE. NO.	DWG. NO.
			CHECKED			
			APPROVED		SCALE 1" to 50'	SHEET NO.

PHILLIPS PETROLEUM COMPANY
ODESSA, TEXAS 79762
4001 PENBROOK, SUITE 206 TELEPHONE: 915 337-8611

REAL ESTATE AND INSURANCE

November 29, 1978

Lea 771
P-2138

Mr. Arthur Brown
U.S.G.S.
Box 1157
Hobbs, New Mexico

Dear Mr. Brown:

The surface of the NE/4 Section 34, T-17-S, R-33-E, Eddy County, New Mexico, the site of Phillips Petroleum Company's proposed Eilliams Well No. 8, is owned by Gary Caviness and Herschel Caviness. We have contacted Gary Caviness and have agreed to pay surface damages incurred by drilling operations. If the well is plugged and abandoned, we will fill and level pits and clear location.

Very truly yours,

Ralph R. Smith

RALPH R. SMITH

RRS:vw

EILLAMS A LEASE WELL NO. 8

NE/4 SECTION 34, T-17-S, R-33-E, LEA CO N.M.

1. LOCATION OF PROPOSED WELL:

   2310' FN & 330' FEL, Sec. 34, T-17-S, R-33-E, LEA CO. New Mexico

2. UNPREPARED GROUND ELEVATION:

3. The geologic name of the surface formation is Quaternary Alluvium and Sand Dunes overlying caliche.

4. Type of drilling tools will be standard rotary rig.

5. Proposed drilling depth is 4800' (San Andres)

6. The estimated tops of important geologic markers are as follows:

Rustler	1430'	Seven Rivers	2920'
Salado	1630'	Queen	3775'
Cowden Anhydrite	2450'	Grayburg	4150'
Yates	2760'	San Andres	4550'

7. The estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Water:	Rustler	1430'
Oil & Gas:	Yates	2760',
	7 Rivers	2920'
	Queen	3775'
	Grayburg	4150'
	San Andres	4550'

8. The proposed casing program is as follows:

   Surface String (0 - 425') 8 5/8", 32#, K-55, ST&C, 1 Cond.
   Production String (0 - 4800') 4 1/2", 11.6#, N-80, LT&C, 1 Cond.
   6000# Frac.

9. CEMENT PROGRAM:

   Surface String - cement to circulate 300sx Class H W/2% CaCl and 1/4#/sk Flocele mixed 15.8 ppg

   Production String - cement to circulate. Cement with Trinity Lite Wate W/12#/sk salt, 10% Diacel D, 1/4#/sk Flocele, and 3#/sk Gilsonite (11.5#/gal., 2.5 cu. ft. /sk, Thickening - Time = 3+ hrs, 24 hr. strength = 316 psi) followed by 150sx of Class H with 8#/sk salt (slurry WT = 15.9 ppg, yield = 1.2, thickening - Time = +4 Hr).
   Volume of Trinity Lite Wate to be determined by caliper. Displace plug with 6 barrels of 10% acetic acid and water.

10. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or API series) and the testing procedure and testing frequency are attached.

11. The proposed mud program is attached (see drilling specialities mud letter)

12. The testing, logging, and coring programs are as follows:

    No D.S.T.'s or cores. Run open-hole logs: Laterolog - Micro Laterolog from total depth to 2500'; CDL - GR - Caliper from total depth to 2500'; GR from 2500' to surface.

13. Anticipate no abnormal pressures or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas.

14. The anticipated starting date is January 1, 1979 with duration of operations for approximately 30 days there after.

15. WATER SUPPLY: Anticipate it will be trucked to well site.

Surface Use Plan

Phillips Petroleum Company, Eilliams Lease Well No. 8, NE/4 Section 34, T-17-S, R-33-E, Lea County, New Mexico.

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately 8 miles southeast of Maljamar New Mexico. The following is a discussion of pertinent information concerning the possible effect which the proposed drilling well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

1. Existing Roads
   A. The paved county road cuts Section 27 in a west - southeast direction approximately 3/4 mile from well site and an existing lease road commences at the county road at a point in the SE/4 of Section 27 that runs North and South. (See map)

2. Planned Access Roads
   A. Commencing at existing North offset lease road in the SE/4 Section 27 construct a 12' x 3000' road in the south direction that would cross Section 34 in NE/4. Construct a 12' x 300' road in an easterly direction to the proposed well site located SE/4 NE/4 Section 34. (See map)
   B. Turnouts: Only at tank battery site
   C. Drainage Design: New road will have a center line to side lines slope.
   D. Culverts, Cuts and Fills: None
   E. Surfacing Material: Caliche well pad and roads
   F. Gates, Cattleguards, Fences: Cattle guard will be @ one point between Section 27 and Section 34 as shown on the map.
   G. Proposed Road: The proposed road is centerline staked.

3. Locations of Existing Wells: None

4. Locations of tank batteries, production facilities, production gathering, and service lines: The proposed tank battery will be located at a point on the Eilliams Lease west of the lease road as shown on map. It consists of cleared caliched pads approx. 30' x 115', flow line from the well to run along side proposed access roadway.

5. Water Supply: Undetermined to date, anticipate it will be purchased and trucked to site.

6. Source of Construction Materials:
   A. Caliche for surfacing the new road and well pads will be obtained from a pit in SW/4 of Section 26.
   B. Caliche pit is located on Federal surface.

7. Methods for Handling Waste Disposal:
Will be put in separate waste pits and covered with minimum of 2' backfill. (See sketch) If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. All produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted for appropriate approval.

8. Ancillary Facilities: None

9. Well Site Layout: Attached sketch shows the relative location and dimensions of the well pad, mud pit, reserve pit, and trash pit. Locations will be 300' east west x 400' north south.

10. Plans for Restoration of Surface:
Pit will be backfilled and levelled as soon as practical to original condition. If well is productive, caliche pad will remain as well service pad. If dry hole, pads and access roads will be ripped per regulations. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 60 days from commencement.

11. Other Information:
A. Terrain: Low rolling sand hills. See attached topographic map of area.
B. Soil: Rocky
C. Vegetation: Mesquite
D. Surface Use: Possibly grazing.
E. Ponds and Streams: None within one mile.
F. Water Wells: None within one mile.
G. Residences and Buildings: None within one mile.
H. Arroyos, Canyons, etc: There are no significant surface features.
I. Well Sign: Sign identifying and locating the well will be maintained at drill site with the spudding of the well.
J. Archaeological Resources: None observed.

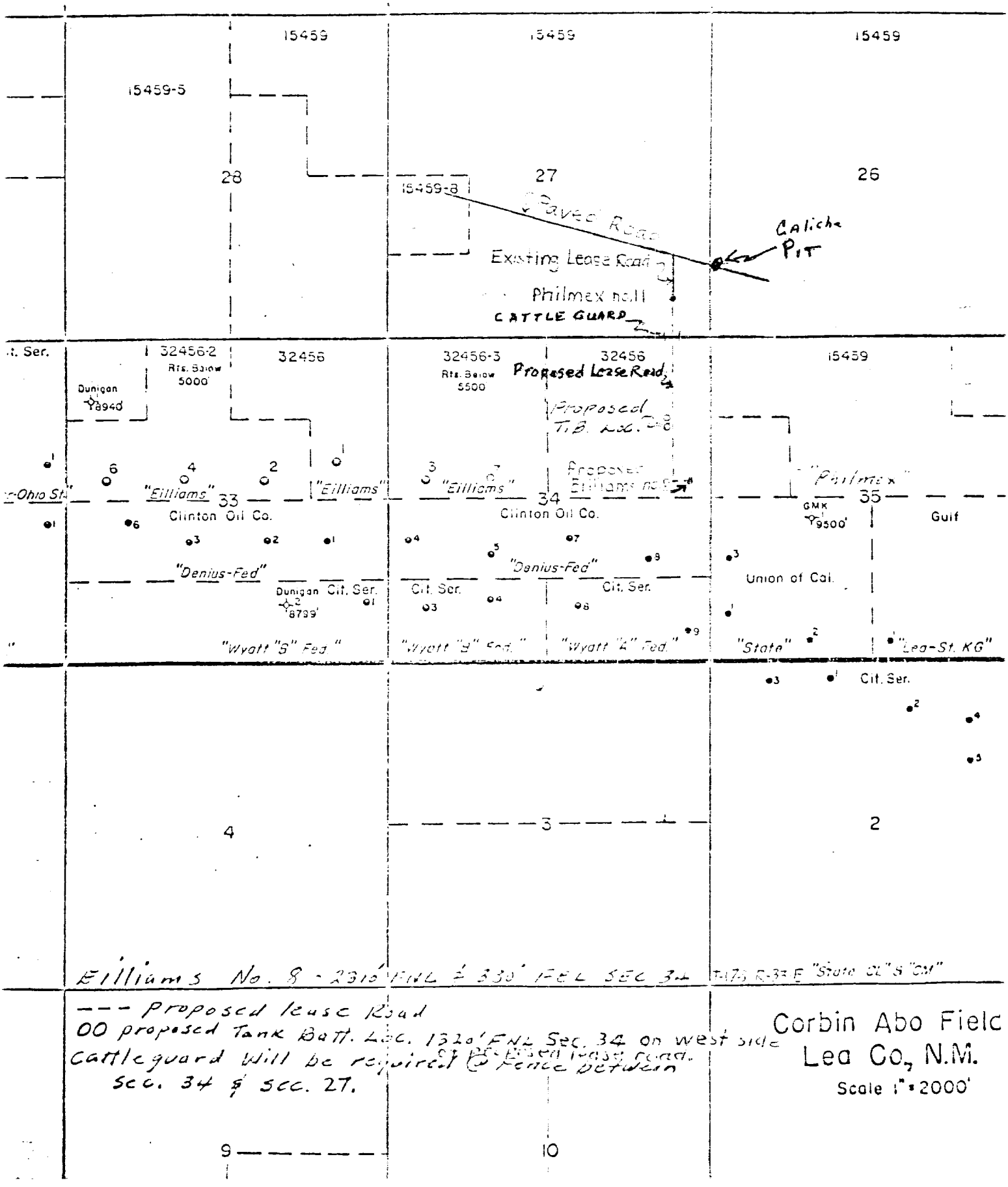
12. Operator's Representative: Field personnel who can be contacted concerning compliance of the "Surface Use Plan" is as follows:

Production and Drilling
W. W. Allen
4001 Penbrook St.
Odessa, Texas 79762
Phone: 915-337-8611, ext. 260

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

December 8, 1978
Date

W W Allen
W. W. Allen
Production Superintendent, Odessa Area,
Southeastern Region
Phillips Petroleum Company


R33E
15459
15459-5
15459
15459
28
27
26
15459-8
Paved Road
Caliche Pit
Existing Lease Road
Philmex no.11
CATTLE GUARD
Cit. Ser.
32456-2
Rts. Below 5000'
32456
32456-3
Rts. Below 5500
Proposed Lease Road
Proposed T.B. Loc.
15459
Dunigan 8940'
"Ohio St."
"Williams"
33
"Williams"
"Williams"
34
"Philmex"
35
Clinton Oil Co.
Clinton Oil Co.
GMK 9500'
Gulf
"Denius-Fed"
"Denius-Fed"
Dunigan 8799'
Cit. Ser.
Cit. Ser.
Cit. Ser.
Union of Cal.
"Wyatt "B" Fed."
"Wyatt "B" Fed."
"Wyatt "A" Fed."
"State"
"Lea-St. KG"
Cit. Ser.
4
3
2
Williams No. 8 - 2310' FNL & 330' FEL SEC 34
T-17S R-33 E "State OL" "S" "OM"
--- Proposed lease Road
OO proposed Tank Batt. Loc. 1320' FNL Sec. 34 on west side of proposed lease road.
Cattleguard will be required to fence between sec. 34 & sec. 27.
Corbin Abo Field
Lea Co., N.M.
Scale 1" = 2000'
9
10

NORTH EAST MALJAMAR UNIT

AZTEC (OPER.)

SHENANDOAH (OPER.)

MAL-GRA UNIT SUNSET (Oper.)

MALJAMAR UNIT

LEAMEX

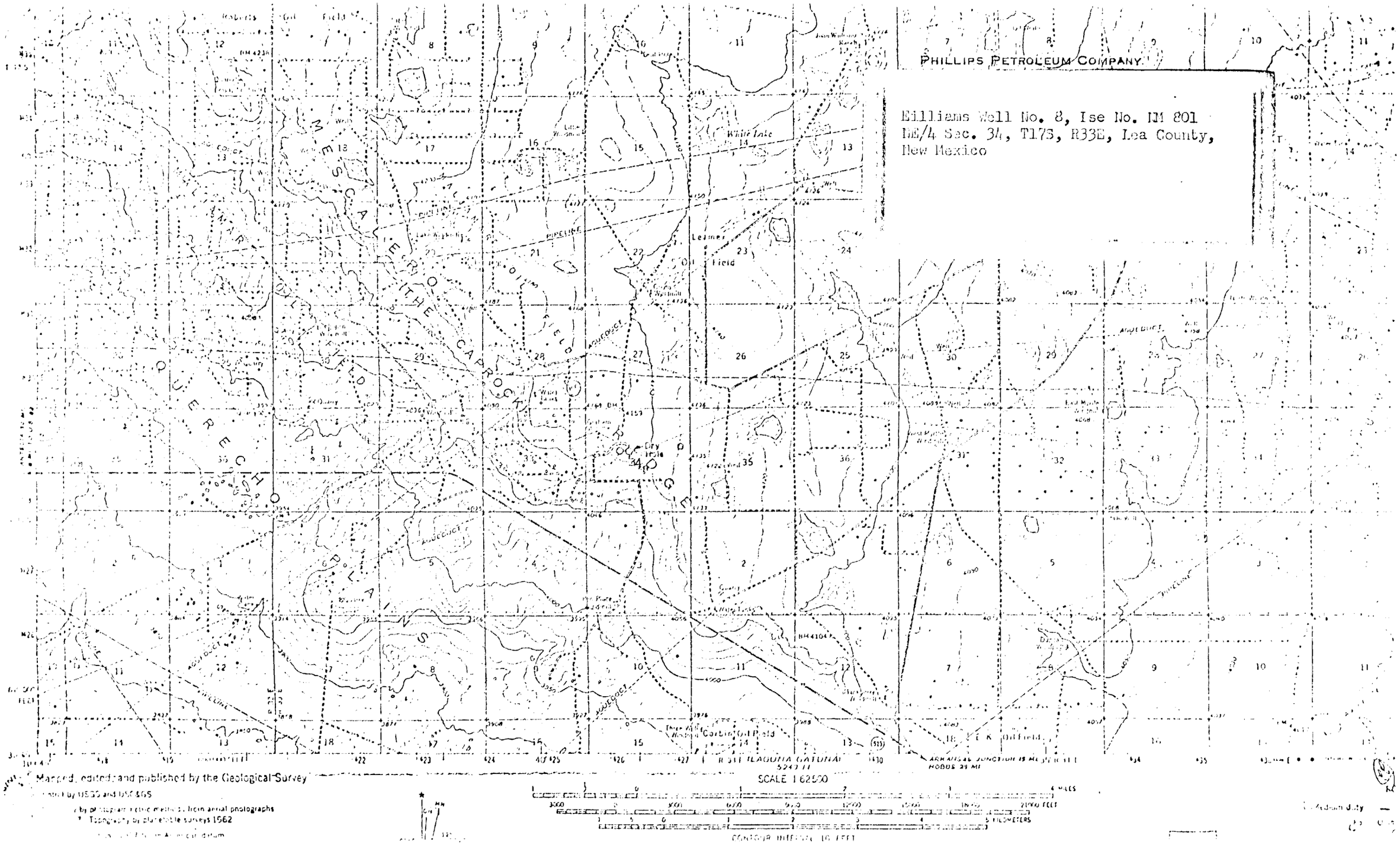
CITIES SERV OPER.

CORBIN

CORBIN E. (GAS)

MOBIL (OPER)

E-K QUEEN UNIT


PHILLIPS PETROLEUM COMPANY
Eilliams Well No. 8, Ise No. NM 801
NE/4 Sec. 34, T17S, R33E, Lea County,
New Mexico
Roberts Field
White Lake
Lemon Field
Dry Hole
Corbin Oil Field
K Oil Field
PIPELINE
AQUEDUCT
SCALE 1:62500
CONTOUR INTERVAL 10 FEET
Mapped, edited, and published by the Geological Survey