Form 9-331 C
(May 1963)

COPY TO O. C. C.

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

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: Ralph E. Williamson

3. ADDRESS OF OPERATOR: 1385 Midland National Bank Tower, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FNL & 1980' FEL of Section 27
At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 27 miles West of Jal, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 660' / 660'

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.: 1320'

19. PROPOSED DEPTH: 5050'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3565.3' Gr.

22. APPROX. DATE WORK WILL START*: July 20, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	24	1050'	See reverse side & Exhibit "F"
7-7/8"	4-1/2"	9.5	5000'	

Mud Program: See Exhibit "G"

BOP Program: Series 900 BOP - See Exhibit "E"

Gas not dedicated

RECEIVED
MAY 24 1979
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 E. Williamson TITLE: Operator DATE: May 22, 1979

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED
JUN 19 1979
JAMES F. SIMS
DISTRICT ENGINEER

*See Instructions On Reverse Side

Form 9-331 C
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

CEMENTING PROGRAM

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

DEEPEN ☐ PLUG BACK ☐

8-5/8" Casing - 750 sacks Class "C" containing 4# bentonite + 1/4#/sx flocele + 100 sacks Class "C" containing 2% $CaCl_2$ and 1/4#/sx flocele.

4-1/2" Casing - 150 sacks Class "C" cement with 3# Salt/sack.

1385 Midland National Bank Tower, Midland, Texas 79701

1980' FNL & 1980' FEL of Section 27

Same

27 miles West of Jal, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	660'	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
	660'	160	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	1320'	19. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
		5050'	Rotary

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

3565.3' Gr.

22. APPROX. DATE WORK WILL START*

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	24	1050'	750 sacks
7-7/8"	4-1/2"	9.5	5000'	250 sacks

Mud Program: See Exhibit "G"

BOP Program: Series 900 BOP - See Exhibit "E"

Gas not dedicated

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 Operator

(This space for Federal or State office use)

PERMIT NO. _____

APPROVED BY _____

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
JUN 26 1975
O. C. C.

*See Instructions On Reverse Side

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-711-396
639-171

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

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: Ralph E. Williamson		Lease: Wright "A" Federal		Well No.: 1
Unit Letter: C	Section: 27	Township: 24 South	Range: 32 East	County: Lea

Actual Footage Location of Well: 1980 feet from the North line and 1980 feet from the East line

Ground Level Elev.: 3565.3	Producing Formation: Delaware	Pool: Double X	Dedicated Acreage: 40 Acres

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

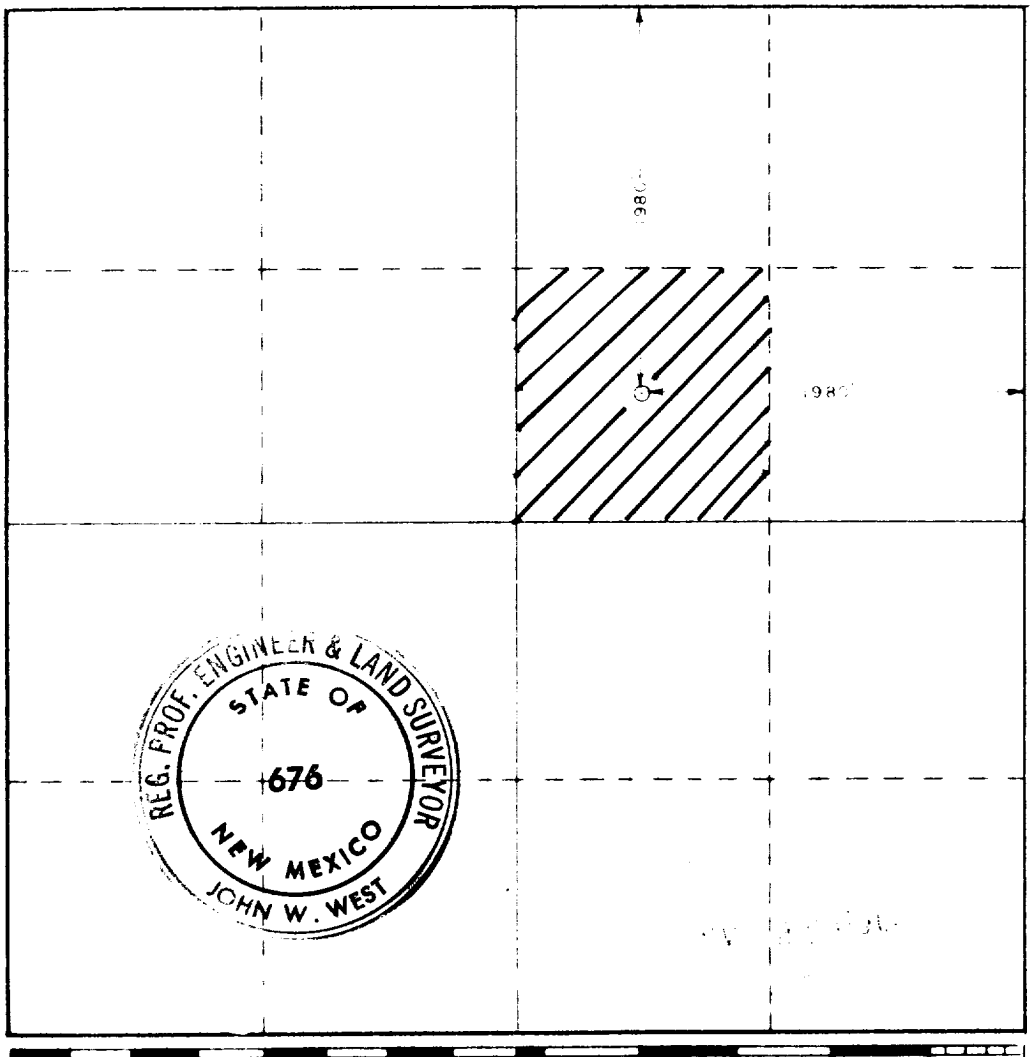
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty) All one (1) lease.

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 N/A

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) N/A

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 E. Williamson

Position: Operator

Company: None

Date:

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 17, 1979

Registered Professional Engineer and/or Land Surveyor

John W. West

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

APPLICATION FOR DRILLING

Ralph E. Williamson
Wright Federal #1-A
1980' FNL and 1980' FEL
Section 27, T-24-S, R-32-E
Lea County, New Mexico

In conjunction with Form 9-331-C, Application for Permit to Drill subject well, Ralph E. Williamson submits the following ten items of pertinent information in accordance with U.S.G.S. requirements:

(1) The geologic surface formation is Red Bed Dockum of the Permian

(2) The estimated tops of the geologic markers are as follows:

Rustler Anhydrite	1000'
Castile	3300'
Delaware Lime	4840'
Delaware Sand	4885'

(3) The estimated depths at which anticipated water, oil and gas formations are expected to be encountered:

Water: There is no fresh subsurface water in this area.

Oil or Gas:

Delaware Sand	4885'

(4) Proposed Casing Program:

See Form 9-331-C and Exhibit "F"

(5) Pressure control equipment:

See Form 9-331-C and Exhibit "E"

(6) Mud Program:

See Exhibit "G"

(7) Auxillary Equipment:

See Exhibit "H"

(8) Testing, Logging and Coring Pressure:

Drill Stem Tests (all tests to be justified by a valid show of oil or gas)

Delaware Sand	4885'

(8) Testing, Logging and Coring Pressure: Continued from page 1.

Geological logging Unit: None anticipated

Electric Log Program:

Induction - Gamma Ray - TD to surface
Laterolog - TD to 4600'

(9) No abnormal pressures or temperatures are anticipated in this well.

(10) Anticipated Starting Date: July 20, 1979

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Ralph E. Williamson
Wright Federal #1-A
1980' FNL and 1980' FEL
Section 27, T-24-S, R-32-E
Lea County, New Mexico
(Field Well)

This plan is submitted with Form 9-331-C, Application for Permit to Drill, covering the above described well. The purpose of this 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 be (followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS:

   A. Exhibit "A" is an up to date land plat showing existing access roads. Exhibit "B" is a portion of a USGS topographic map of the area on a scale of approximately 2.65 inches to the mile, showing the location of the proposed wellsite, and roads in the vicinity. The proposed location is situated approximately 27 miles West of Jal, New Mexico, via the access route shown in red.

      DIRECTIONS:

      1. Proceed west from Jal 27 miles to Double X Delaware field.
      2. Turn left (south) and continue for 2.0 miles to location.

2. PLANNED ACCESS ROAD:

   A. The proposed new access will be approximately 1320 feet in length from point of origin to the edge of the drilling pad. The road will lie in a south to north direction.

   B. The new road will be 12 feet in width (driving surface), except at the point of origin, adjacent to the existing road, at which point enough additional width will be provided to allow heavy trucks and equipment to turn.

   C. The new road will be covered with the necessary depth of caliche. The surface will be crowned, with drainage on both sides. No turnouts will be necessary.

   D. The center line of the new road has been staked and flagged and the route of the road is clearly visible.

3. LOCATION OF EXISTING WELLS:

   A. The well locations in the vicinity of the proposed well are shown in Exhibit "C".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

   A. There is one producing well on this lease at the present time.

   B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive of oil, electricity will be used. No unassociated gas is anticipated in this well.

5. LOCATION AND TYPE OF WATER SUPPLY:

   A. All water will be hauled to the location by access road described above.

6. SOURCES OF CONSTRUCTION MATERIALS:

   A. Any caliche required for construction of the drilling pad will be obtained from an existing caliche pit on surface use plan. No new access road will be needed to an existing pit on federally owned surface shown on Exhibit "A".

7. METHODS OF HANDLING WASTE DISPOSAL:

   A. Drill cuttings will be disposed of in the reserve pits.

   B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.

   C. Water produced during operations will be collected in tanks until disposed of in an approved existing disposal system.

   D. Oil produced during operations will be stored in tanks until sold.

   E. Current laws and regulations pertaining to the disposal of human waste will be complied with.

   F. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.

   G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

   A. None required.

9. WELLSITE LAYOUT:

   A. Exhibit "D" shows the dimensions of the well pad and reserve pits, and the location of major rig components.

   B. The ground surface at the drilling location is generally flat no cutting will be required to level the pad area, which will be covered with at least six (6) inches of compacted caliche.

9. WELLSITE LAYOUT: Continued

C. The reserve pits will be plastic lined.

D. The pad and pit area has been staked and flagged.

10. PLANS FOR RESTORATION OF THE SURFACE:

A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleared of all trash and junk, to lease the well-site in as aesthetically pleasing a condition as possible.

B. Unguarded pits, if any, containing fluids will be fenced until they have been filled in.

C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. TOPOGRAPHY:

A. The wellsite and access route are located in a flat area.

B. The top soil at the wellsite is clay and sand.

C. The vegetation cover at the wellsite is sparse, with sparse prairie grasses, miscellaneous weeds and catclaw.

D. No wildlife was observed but it is likely that rabbits, lizards, insects, and rodents traverse the area. The area is used for cattle grazing.

E. There are no ponds, lakes, streams, or rivers within several miles of the wellsite.

F. The wellsite is located on federal surface.

G. There is no evidence of any archaeological, historical, or cultural sites in the vicinity of the location.

12. OPERATOR'S RESPRESENTATIVES:

A. The filed representatives responsible for assuring compliance with the approved surface use plan are:

Operator and Drilling Engineer:

Ralph E. Williamson
1385 Midland National Bank Tower
Midland, Texas 79701
Phone: 915-683-2200 (Office)
915-682-2600 (Home)

Geologist:

J. C. Williamson
1385 Midland National Bank Tower
Midland, Texas 79701
Phone: 915-682-1797 (Office)
915-682-8357 (Home)

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 preformed by Ralph E. Williamson and his contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

May 23, 1977
Date

Ralph E. Williamson

EXHIBIT "A"

Ralph E. Williamson
Wright Federal #1-A
1980' FNL and 1980' FEL
Section 27, T-24-S, R-32-E
Lea County, New Mexico

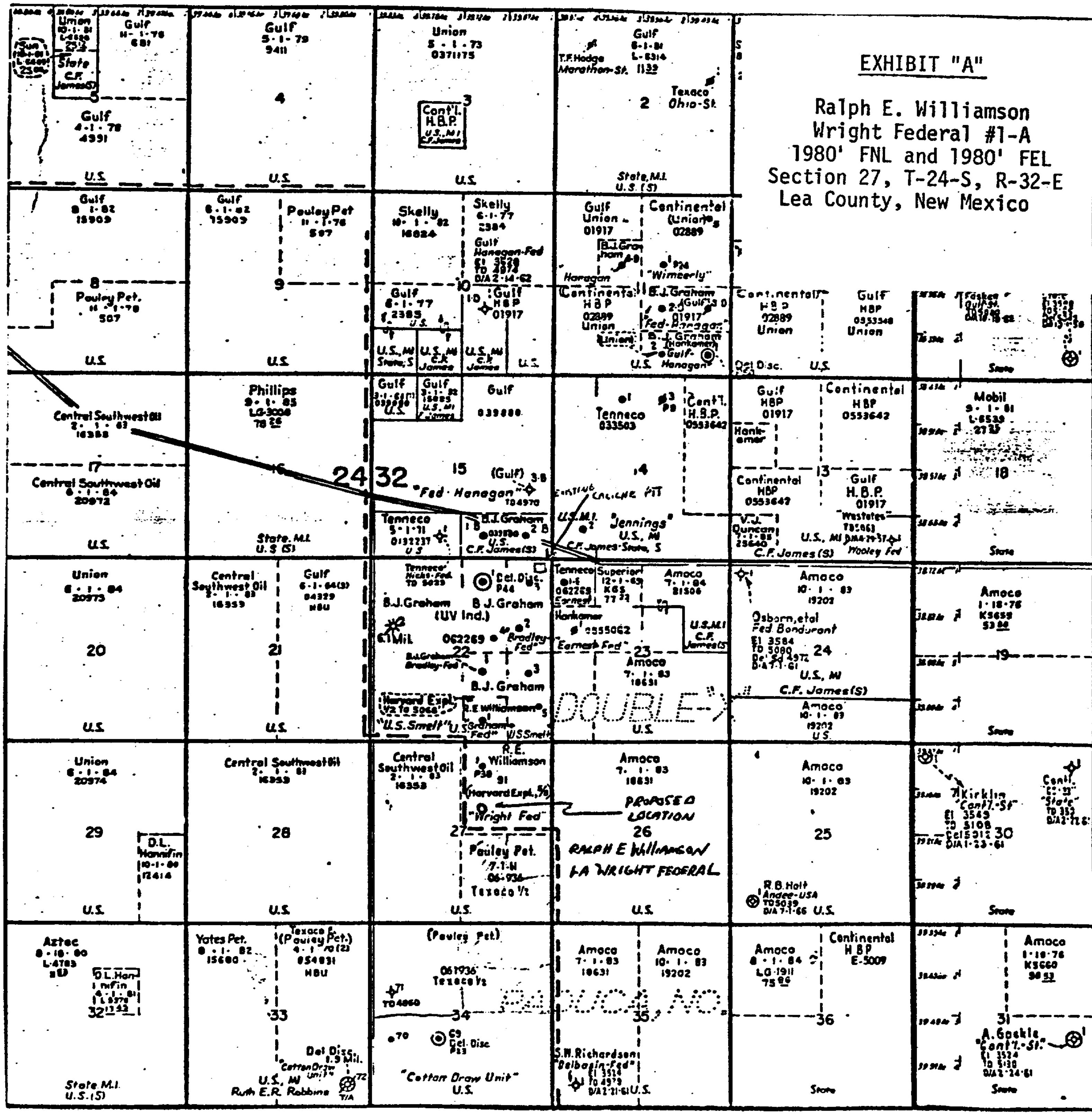
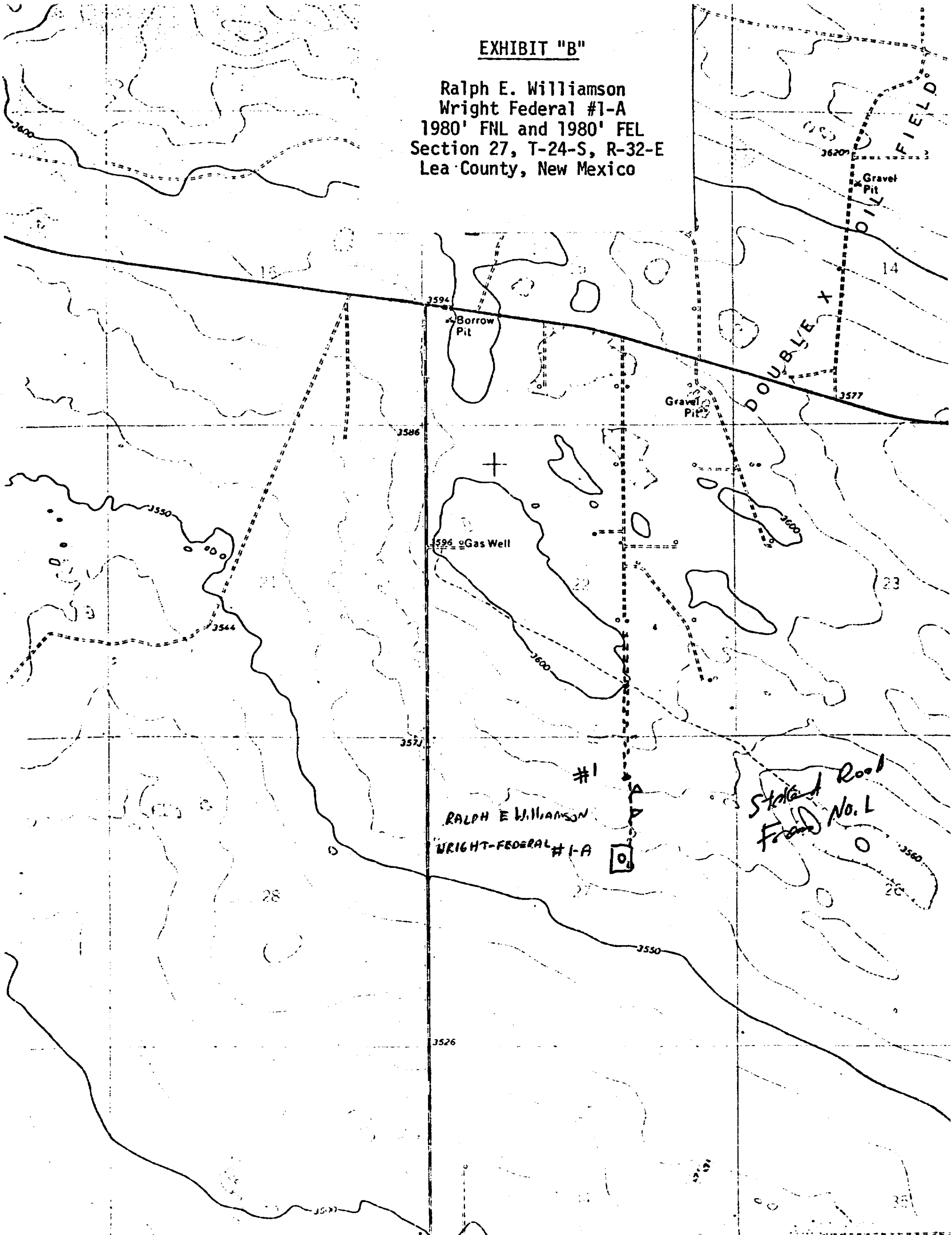


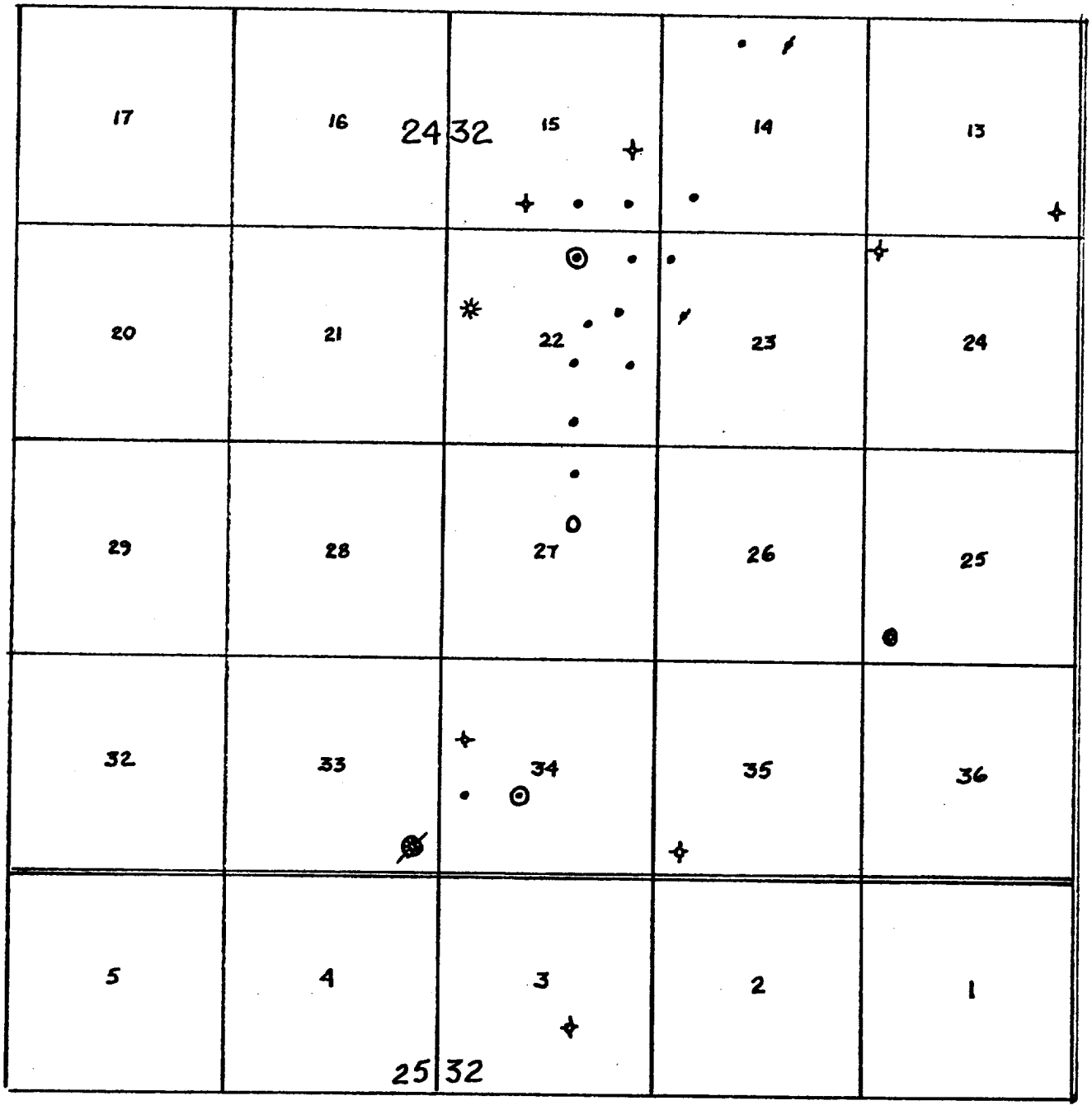
EXHIBIT "B"

Ralph E. Williamson
Wright Federal #1-A
1980' FNL and 1980' FEL
Section 27, T-24-S, R-32-E
Lea County, New Mexico



WELL LOCATION MAP

LEA COUNTY, NEW MEXICO



LEA COUNTY, NEW MEXICO

EXHIBIT "C"

Ralph E. Williamson
Wright Federal #1-A
1980' FNL and 1980' FEL
Section 27, T-24-S, R-32-E
Lea County, New Mexico

Legend

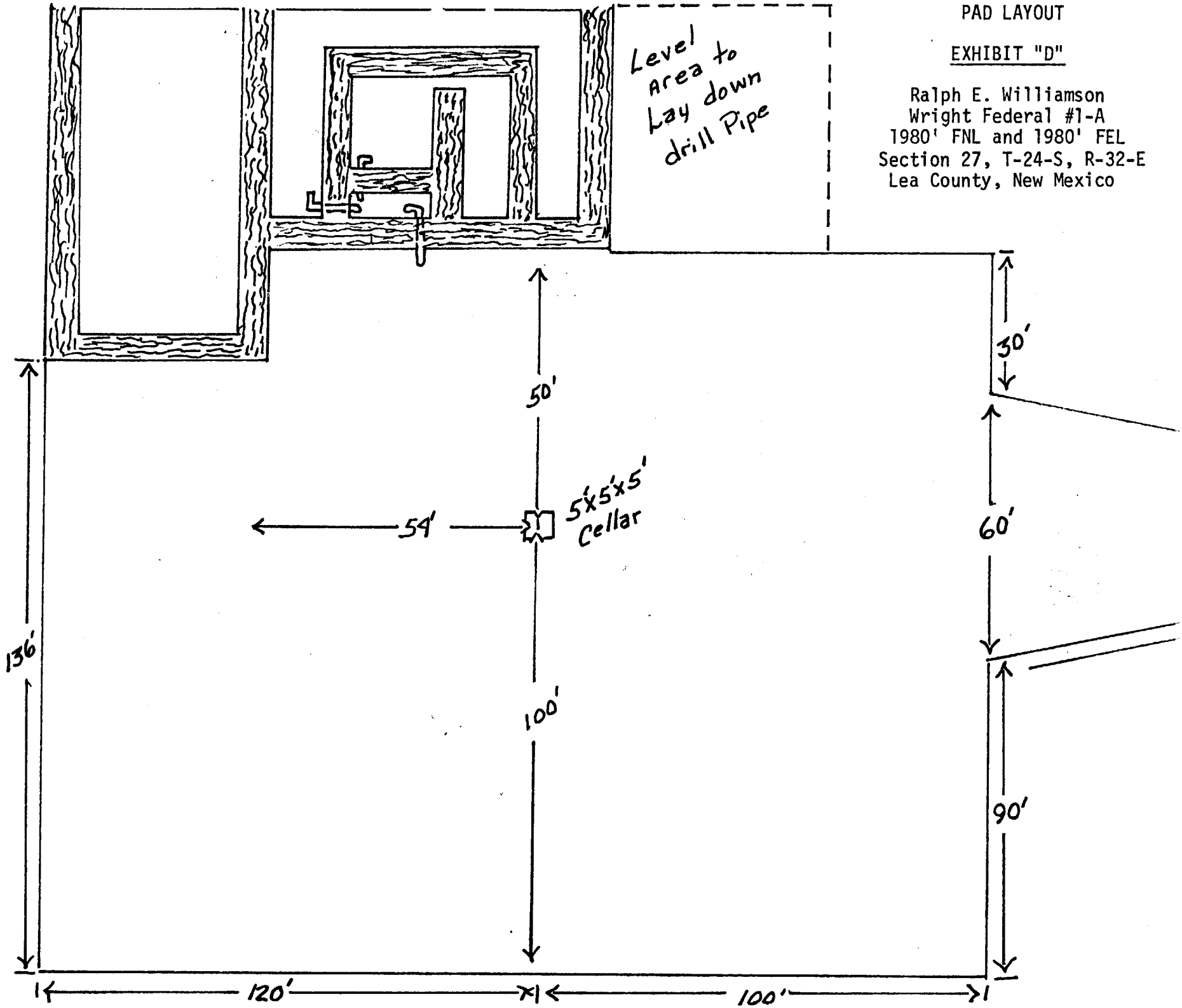
O Location ⊕ P&A

Producer: • Oil ⊛ Gas

PAD LAYOUT

EXHIBIT "D"

Ralph E. Williamson
Wright Federal #1-A
1980' FNL and 1980' FEL
Section 27, T-24-S, R-32-E
Lea County, New Mexico



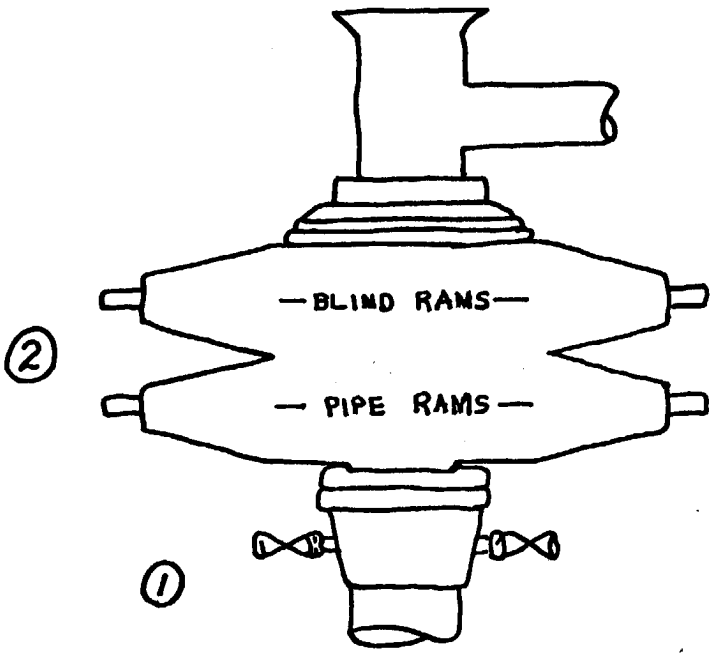
Blowout Preventer

EXHIBIT "E"

Ralph E. Williamson
Wright Federal #1-A
1980' FNL and 1980' FEL
Section 27, T-24-S, R-32-E
Lea County, New Mexico

(1) 10" 900 Series Starterhead

(2) 10" 900 Series double ram blowout preventer w/Payne(hydraulic) closing unit



→ to Payne Hydraulic Closing Unit

3000 psi Working Pressure
Blowout Preventer Hook-up

(Series 900 Flanges or better)

EXHIBIT "F"

Ralph E. Williamson
Wright Federal #1-A
1980' FNL and 1980' FEL
Section 27, T-24-S, R-32-E
Lea County, New Mexico

SUMMARY LOGGING
DRILLING, DRILL STEM TESTING, CASING AND CEMENTING PROGRAM

(1) Drill 11" hole to 1050 feet; this is through all known fresh water sands.

(2) Cement 1050' of 8-5/8" casing with 350 sacks of Class "C" cement with 2% calcuim chloride. Cement will be circulated. Run Texas pattern guide shoe with float collar at top of shoe joint. Use on wooden plug to dispace cement.

(3) Release pressure immediately, nipple up and install BOP's, test casing to 500 psi after 12 hours and drill out cement.

(4) Drill 7-7/8" hole to 4875 feet. Mud of sufficient quality to facilitate coring will be used.

(5) Core 50 feet to see if productive Delaware Sands are present.

(6) Log with Induction-Gamma Ray log from TD to surface, and Laterolog from TD to 4600'.

(7) Cement 4-1/2" casing with 150 sacks Halliburton Class "C" cement with 2% calcium chloride. Run guide shoe and float collar on bottom joint with 4 centralizers. Use 1 rubber plug to displace cement.

(8) Perforations, acid job, frac job or additional stimulation will be determined after oil string pipe is run.

HALLIBURTON

Ralph E. Williamson
Wright Federal #1-A
1980' FNL and 1980' FEL
Section 27, T-24-S,R-32-E
Lea County, New Mexico

PROPOSAL

May 16, 1979

PROCEDURE ANALYSIS
Cementing

For: Mr. Ralph E. Williamson
1385 Midland National Bank Tower
Midland, Texas 79701

Re: 1 Wright Federal
S27, R32E, T24S
Lea County, New Mexico

WELL DATA:

	CASING	HOLE	DEPTH
Surface:	8 5/8"	11"	1,050'
Oil String:	4 1/2"	7 7/8"	4,950'

RECOMMENDATION:

Surface Pipe: We recommend that cement be brought back to surface with 250 sacks of Class "C" cement containing 4% Bentonite (gel) and 2% $CaCl_2$, tailing in with 100 sacks of Class "C" cement containing 2% $CaCl_2$. These figures were arrived at using theoretical annular volumes plus 100% excess.

Floating equipment should include 1 Texas Pattern guide shoe, 1 insert float valve with automatic fill-up attachment, three S-3 centralizers, 1 E-Z Lok clamp and 2 pounds of Weld-A.

CEMENT PHYSICAL PROPERTIES: Class "C" W/4% Bentonite and 2% $CaCl_2$

Weight - 13.6 lb./gal.
Yield - 1.69 cu.ft./sk.
Water required - 8.9 gal./sk.
Thickening time - 4:30+
Comp. Strength - @ 70°F
12 hrs - 200 Psi
24 hrs - 500 Psi

Class "C" W/2% $CaCl_2$

Weight - 14.8 lb./gal.
Yield - 1.32 cu.ft./sk.
Water required - 6.3 gal./sk.
Thickening time - 3:00
Comp. Strength - @ 70°F
12 hrs - 500 Psi
24 hrs - 2300 Psi

COST ESTIMATE:

100 sks. Class "C" W/add.	$ 545.52
250 sks. Class "C" W/add.	1,439.02
Pump chg. (1050)	576.50
Mileage & drayage (50 mi)	470.35
TOTAL	$ 3,031.39
Floating equipment	325.25
GRAND TOTAL	$ 3,356.64

OIL STRING: We recommend this string be cemented with 150 sacks of Class "C" cement containing 3 lbs. salt per sack.

Floating equipment should include 1 cement guide shoe, 1 float collar, 10 S-3 centralizers, 1 E-Z Lok Clamp, and 2 lbs. Weld-A.

CEMENT PHYSICAL PROPERTIES: Class "C" W/3 lbs. salt per sack

Weight - 14.93 lb./gal.
Yield - 1.34 cu.ft./sk.
Water required - 6.3 gal./sk.
Thickening time - 2:30 hr
Comp. Strength - @ 100°F
12 hrs - 1600 Psi
24 hrs - 2600 Psi

COST ESTIMATE:

Pump chg. (4950')	$ 836.00
150 sks. Class "C" W/add.	790.31
Mileage & drayage (50 mi)	235.96
TOTAL	$ 1,862.27
Floating equipment	348.95
GRAND TOTAL	$ 2,211.22

We are pleased to have this opportunity to present this proposal for your consideration. If you accept our proposal, all materials and equipment furnished and services performed will be under our General Terms and Conditions and pursuant to our applicable Work Order Contract (whether or not executed by you). Copies of our General Terms and Conditions and applicable Work Order Contract will be furnished on request.

Prepared by _____
Jeff McWilliams
E.I.T.
Hobbs, New Mexico

Submitted by _____
A. O. Stephens
Assist District Superintendent
Hobbs, New Mexico

JMAOS/bh

cc: Earl Stanley
Bob Lansford
Harold Foster
Marvin Manley
Byron Sprawls
Buddy Redden
Engineering
Hobbs Sales

EXHIBIT "G"

Ralph E. Williamson
Wright Federal #1-A
1980' FNL and 1980' FEL
Section 27, T-24-S, R-32-E
Lea County, New Mexico

Drilling F ...endations

OPERATOR Ralph Williamson

LEGAL Sec. 27, T-24-S, R-32-E

WELL NAME Ralph E. Williamson #1 "A" Wright Federal

COUNTY Lea County, New Mexico

ANTICIPATED FORMATION TOPS

Rustler	@	1015 ft.		@	ft.
Salt	@	1240 ft.		@	ft.
Castile	@	2715 ft.		@	ft.
L/Castile	@	4600 ft.		@	ft.
Delaware Lime	@	4840 ft.		@	ft.
Delaware Sand	@	4875 ft.		@	ft.
	@	ft.		@	ft.

ANTICIPATED DRILLING PROGRAM

CASING SIZE	DEPTH	BIT SIZE	NUMBER BITS	NUMBER DAYS
8-5/8"	1050'	11"		
5-1/2"	5000'	7-7/8"		

RECOMMENDED DRILLING FLUID PROPERTIES

DEPTH	MUD PROPERTIES		REMARKS
0-1050	Weight	8.8-9.6	Drill this interval with a fresh water/ native mud system. Use Fresh Water Gel for viscosity, if needed. Use fresh water to control viscosity 32-33 sec/1000cc through red bed section. Use Paper for seepage. Sweep hole with a viscous Fresh Water Gel pill before running casing to insure proper placement.
	Viscosity	32-40	
	API Filtrate	NC	
	pH	NC	

Southwestern
Drilling Mud Service, Inc.

Drilling Fluids Recommendations

OPERATOR Ralph Williamson WELL NAME Williamson #1 "A" Wright Federal

Recommended Drilling Fluid Properties (cont'd)

DEPTH	MUD PROPERTIES		REMARKS
1050-4800	Weight Viscosity API Filtrate pH	10.0 27 NC 9-10	Drill this interval with a saturated brine water system, circulating through the reserve to help control solids. Use Caustic Soda for pH and Paper for seepage. Sweep hole periodically with viscous Salt Water Gel pills to insure proper hole cleaning. Discontinue use of Lime @4200'.
4800-5000	Weight Viscosity API Filtrate pH	10.0-10.2 26-40 10-15 9-10	Mud up in working pits with a Salt Water Gel and Starch mud system. Additions of Caustic Soda will provide better yield of Salt Water Gel. Add Salt Water Gel for desired viscosity. Use Starch for water loss control. Use D-76 Defoamer for foaming, as needed.

ON, TEXAS 75080
O. BOX 1239
.214) 234-0102

HOBBS, NEW MEXICO
P. O. BOX 2068
(505) 393-2146

CACTUS DRILLING COMPANY

905 SOUTH CECIL
HOBBS, NEW MEXICO 88240

RIG NO. 65

CAPACITY - 3,000' to 6,000'

DRAWWORKS:	**BREWSTER N-4** **POWERED BY TWO 6-71 GM TWIN DIESELS** **INPUT HORSEPOWER - 454**
DERRICK:	**97' LEE C. MOORE** **CAPACITY 380,000#**
SUBSTRUCTURE:	**10'** **KB 12'**
MUD PUMP:	**EMSCO DB-550 W/FORGED STEEL FLUID END** **7-1/2" X 16" RATED H.P. - 550** **POWERED BY D-379 CATERPILLAR** **502 HORSEPOWER**
B.O.P.:	**10" CAMERON SS SERIES 900** **DOUBLE HYDRAULIC W/PAYNE CLOSING UNIT**
WATER STORAGE:	**500 BARRELS**
TRAILER HOUSE:	**15' MOBILE HOME**
DRILL PIPE:	**4" FULL HOLE - GRADE E**
DRILL COLLARS:	**6-1/2" X 31'**

24 HOUR RADIO COMMUNICATION

EXHIBIT "H"

Ralph E. Williamson
Wright Federal #1-A
1980' FNL and 1980' FEL
Section 27, T-24-S, R-32-E
Lea County, New Mexico