Form 9-331 C (May 1963)	UNIT DEPARTMENT MAREORA GEOLOX	GICAL SURVEY	(Other instru reverse s	S. LEASE DESIGNATION AND SERIAL NO.
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2. NAME OF OPERATOR	hamdên avlaça 031	nation "	evr N	
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1385 Midland M	National Bank T	ower, Midla	nd, Texas 79701	10. FILLD AND POOL, OR TILDCAT
4. LOCATION OF WELL (Rep At surface	port location clearly and	in accordance with	any State requirements.*)	Double X Delaware
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At proposed prod. zone	Same			ڲ ٳڮۛۊ <u></u> ۊ 275 T-24-55 R-32- E
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18. DISTANCE FROM PROPO TO NEAREST WELL, DRI OR APPLIED FOR, ON THIS	ILLING, COMPLETED,	320'	19. PROPOSED DEPTH 5050'	20. ROTAR CORCABLE TOOLS :
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NEW CICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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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)

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Delaware Sand

4885'

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(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.

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(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 wellsite 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:

Geologist:

Ralph E. Williamson 1385 Midland National Bank Tower Midland, Texas 79701 Phone: 915-683-2200 (Office) 915-682-2600 (Home) 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 B. (1) Date

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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 • Location • P&A Producer: • Oil • Gas

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 \odot \odot (Series 900 Flanges or better) ş unit 10" 900 Series double ram blowout
preventer w/Payne(hydraulic) closing 10" 900 Series Starterhead 3000 psi Working Pressure Blowout Preventer Hook-up \odot \odot Z -BLIND RAMS-- PIPE RAMS-R R R 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** to Payne Hydraulic Closing Unit EXHIBIT "E"

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 I rubber plug to displace cement.
- (8) Perforations, acid job, frac job or additional stimulation will be determined after oil string.pipe is run.

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TYHIBIT "F" (Continued)



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. Williams A 1385 Midland National Bank Tower Midland, Texas 79701
- Re: 1 Wright Federal S27, R32E, T24S Lea County, New Mexico

WELL DATA:

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	CASING	HOLE	DEPTH
Surface:	8 5/8"	11"	1,050'
0il String:	4 1/2"	7 7/8"	4,950'

RECOMMENDATION:

<u>Surface Pipe</u>: We recommend that cement be brought back to surface with 250 sacks of Class "C" cement containing 4% Bentonite (gel) and 2% CaCl₂, tailing in with 100 sacks of Class "C" cement containing 2% CaCl₂. 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% CaCl2

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

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A Hallibert Lorn Company

Page 2 Mr. Ralph E. Williams of May 16, 1979

Class "C" W/2% CaCl₂

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

<u>OIL STRING:</u> 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	
GRAND TOTAL	\$ 2,211.22

. . rage 5 Mr. Ralph E. Williams_{ov} --May 16, 1979

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 Em Jeff Mowill .iams

E.I.T. Hobbs, New Mexico

Submitted by

A. O. Stephens

Assist District Superintendent Hobbs, New Mexico

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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

_____ @ _____ ft.

ft.

__ft.

______ @ ______ ft.

______@______ft.

@_____

@_____

OPERATOR <u>Ralph Williamson</u>

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

WELL NAME Ralph E. Williamson #1 "A" Wright COUNTY Lea County, New Mexico Federal

1015 ft. Rustler____@__ <u>1240</u>____ft. Salt_____@____ Castile @ _______ ft. 4600 ft. L/Castile____@__ Delaware Lime @_____ 4840 ft. ft. ft. __ @ _____

_____ @ _____ ft. _____ @ ______ft.

ANTICIPATED FORMATION TOPS

ANTICIPATED DRILLING PROGRAM

CASING SIZE	DEPTH	BIT SIZE	NUMBER BITS	NUMBER
•	<u>.</u>			
8-5/8" 5-1/2"	1050' 5000'	11" 7-7/8"		

RECOMMENDED DRILLING FLUID PROPERTIES

DEPTH	MUD PROPE	RTIES	REMARKS
0-1050	Viscosity 3 API Filtrate M	8.8-9.6 82-40 IC IC	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.
			\$



Drilling Fluids Recommendations

OPERATOR Ralph Williamson

WELL NAME <u>Williamson #1</u> "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.
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HOBBS, NEW MEXICO P. O. BOX 2068 (505) 393-2146

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

CACTUS DRILLING COMPANY

905 SOUTH CECIL HOBBS, NEW MEXICO 88240

RIG NO. 65

CAPACITY - 3,000' to 6,000'

DRAWWORKS :

DERRICK:

BREWSTER N-4 POWERED BY TWO 6-71 GM TWIN DIESELS INPUT HORSEPOWER - 454

97° LEE C. MOORE CAPACITY 380,000#

> 10' KB 12'

SUBSTRUCTURE:

MUD PUMP:

WATER STORAGE:

TRAILER HOUSE:

DRILL COLLARS:

DRILL PIPE:

B.O.P.:

EMSCO DB-550 W/FORGED STEEL FLUID END 7-1/2" X 16" RATED H.P. - 550 POWERED BY D-379 CATERPILLAR 502 HORSEPOWER

10" CAMERON SS SERIES 900 DOUBLE HYDRAULIC W/PAYNE CLOSING UNIT

500 BARRELS

15' MOBILE HOME

4" FULL HOLE - GRADE E

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

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