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Form approved. **2**5.

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DEPARTMENT OF THE INTERIOR

UNITED STATES

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a. TYPE OF WORK	LL 😨	DEEPEN	PLUG BA	-	7. UNIT AGREEMENT NAME	<u>1R 3 1 1982</u>
b. TYPE OF WELL			NGLE MULTI	PLE -	C MARK OR LEASE NAME	O. C. D.
11 BBB	S OTHER	ZO			8. FARM OR LEASE NAME	FESIA, OFFICE
. NAME OF OPERATOR				j	9. WELL NO.	
. ADDRESS OF OPERATOR	C				3	
200 Canto	al Odasea Text	79761			10. FIELD AND POOL, OR	WILDCAT
. LOCATION OF WELL (Re	port location clearly and		tate requirements.*)	* -	11. SEC., T., R., M., OR BLE AND SURVEY OR AREA	
		#7_@ #76_#			AND SURVEY OR AREA	
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M-660 TS At proposed prod. zon				W m	12 Sag. 26 75	26F
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Mud Program: See letter from Marrs Mud Company

BOP Program: See Exhibit "D" Gas Production not dedicated

AR GEÖLDÖLÜL SURVE. BOSWAL, KAV MERÇÖ

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout zone.

preventer program, if	any.			
signed L	Denney R.L. Denney TITLE_	Chief Production Cler	DATE 3-1	0-82
(This space for E	APPROVED	APPROVAL DATE		• • •
	(Orig. Sad.) GEORGE H. STEWART PROVAL, IF MAR 2:4 1982		DATE	: "
	FOR JAIAES A. GILLHAM DISTRICT SUPERVISOR*See Instruction	s On Reverse Side		

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.

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

Form C-102 Revised 10-1-78

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 8750

P. O. HOX 2088

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DEPCO, Inc. 800 Central Odessa, Texas 79761

Application for drilling

DEPCO, Inc.
No.! Vance Federal B, Sec. 26, T-7S, R-26E
Chaves County, New Mexico

In conjuction with Form 9-331C, Application for permit to drill, DEPCO, Inc. submits the following items of pertinent information in accordance with USGS requirements.

1. The estimated tops of geologic markers are as follows:

San Andres	8 15
Glorieta	2000
Abo	4140

2. The depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: Approximately 200 feet or less Gas Abo 4140-4500'

- 3. Proposed casing Program: See Form 9-331C
- 4. Pressure Control Equipment: See Form 9331C and Exhibit D.
- 5. Mud Program: See Form 9-331C and attached letter from Marrs Mud Company
- 6. Auxiliary Equipment: Blowout Preventer, Inside Blowout Preventer, Kelley Cock.
- 7. Testing, Logging and Coring Program:

Drill Stem Test: Abo

10-foot samples from surface casing to TD
Logging: Dual Laterolog and Compensated Neutron/Density
With Gamma Ray and Caliper

- 8. No abnormal pressues or temperatures are anticipated.
- 9. Anticipated starting date: As soon as possible.

AC 505 623 586**2**

MARRS MUD a division of Corral, Inc.

1717 West Second St. Roswell, New Mexico 88201

Sales Office 1118 West Aspen Lovington, New Mexico 88260

COMPANY	DE	PCO,	INC	<u> </u>				
WELL	VANCE	FEDE	RAL	Б				
FIELD								
LOCATION	SEC	LION	26_	-7-2	26			
COUNTY_	CHAV	ES			_STATE _	NEW	MEXICO	
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PROPOSED MUD PROGRAM

CASING PROGRAM:

.8 5/8" Surface 6001 4 1/2" Production 4500°

SUGGESTED MUD PROPERTIES

DEPTH (FEET)	MUD WEIGHT (PPG)	VISCOSITY (SEC)	FLUID LOSS (ML)
100 300 800 1,000	8.6 - 8.8 8.6 - 8.8 8.8 - 9.0 8.8 - 9.0	34 - 36 34 - 36 34 - 36 34 - 36	No Control No Control No Control No Control
Set 8 5/8" Water:	Surface Casing @	600' . Drill out	with Fresh
1,500 2,000 2,500 3,000 3,800 4,000 4,500	10.0 10.0 10.0 10.0 10.0 - 10.1 10.0 - 10.1 10.0 - 10.2 10.0 - 10.2 10.0 - 10.2 10.0 - 10.2 10.0 - 10.2	28 28 28 28 28 38 - 40 38 - 40 38 - 40 38 - 40 38 - 40 44 - 46 44 - 46 48 - 50	No Control 10 - 15 10 - 15 10 - 15

Set 4 1/2" Production Casing @ 4,500'

PROPOSED MUD PROGRAM BY CASING INTERVAL

0 - 600' SURFACE:

We suggest spudding with a Gel/Lime slurry having a 34 - 36 Sec/1000cc viscosity. A fluid of this nature should provide adequate cleaning while drilling the shallow, poorly consolidated formations. It is very important to maintain a STABLE viscosity while drilling this interval to help eliminate

AC 505 623 6862

396.4876

MARRS MUD a division of Corral, Inc.

1717 West Second St. Roswell, New Mexico 88201

Sales Office 1118 West Aspen Lovington, New Mexico 88260

COMPANY	DEPCO,	INC.		
WELL	VANCE FEDE	ERAL B # 1		
FIELD				
LOCATION	SECTION	26 - 7 - 26		
COUNTY	CHAVES	STATE	NEW MEXIC	0
PROPOSED	DEPTH 4.50	0'		

hole problems when drilling Red Beds.

PRODUCTION: 600 - 4,500'

Drill from below the Surface Casing with Fresh Water circulating the reserve pit. This fluid will become Salt Saturated while drilling the Salt Section. We suggest using Caustic Soda to maintain a 9.0 - 9.5 pH while drilling with Water. This fluid should be adequate to drill to 3,800' or 150' above the Abo formation, where we suggest "mudding up" with a Salt Gel/Oil system having the following properties:

Mud Weight - 10.0 - 10.1 PPG Viscosity - 38 - 40 Sec/1000cc Fluid Loss - No Control Oil Content - 4 - 5%

A fluid with the above properties, with the exception of raising the viscosity as hole conditions dictate, should be adequate to drill to $4,500^{\circ}$ where we suggest lowering the fluid loss to 10-15 ML. This fluid should be adequate to safely drill, test, and log at total depth.

ESTIMATED MUD COST: \$14,000 - \$16,000

The estimated mud cost is under normal conditions and does not include any extensive loss of circulation, fishing, etc. This cost is also based on a normal drilling rate per day, therefore, any excessive time spent on drilling due to crooked hole, testing, breakdowns, etc., would increase mud cost.

AC 505 623 6862

MARRS MUI a division of Corral, Inc.

1717 West Second St. Roswell, New Mexico 88201

AC 50**5** 396-487**6**

Sales Office 1118 West Aspen Loyington, New Mexico 88260

COMPANY DEPCO, INC.	
WELL VANCE FEDERAL B #	1
FIELD	
LOCATION SECTION 26-7-26	
COUNTY CHAVES	STATE NEW MEXICO
PROPOSED DEPTH 4,500'	

"STOCK POINT"

MARRS MUD

LOVINGTON, N.M.

505/396-2540

505/396-7555

PERSONNEL:

WAYNE MARRS
GENERAL MANAGER
LOVINGTON, N.M.
505/396-4876

JIM BARNETT
SALES & SERVICE REP.
HOBBS, N.M.
505/393-6081

NORMAN BENTLE SR. SALES & SERVICE REP. HOBBS, N.M. 505/392-5616

RICK RIPPY
SALES & SERVICE REP.
HOBBS, N.M.
505/392-3470

COMMUNICATIONS:

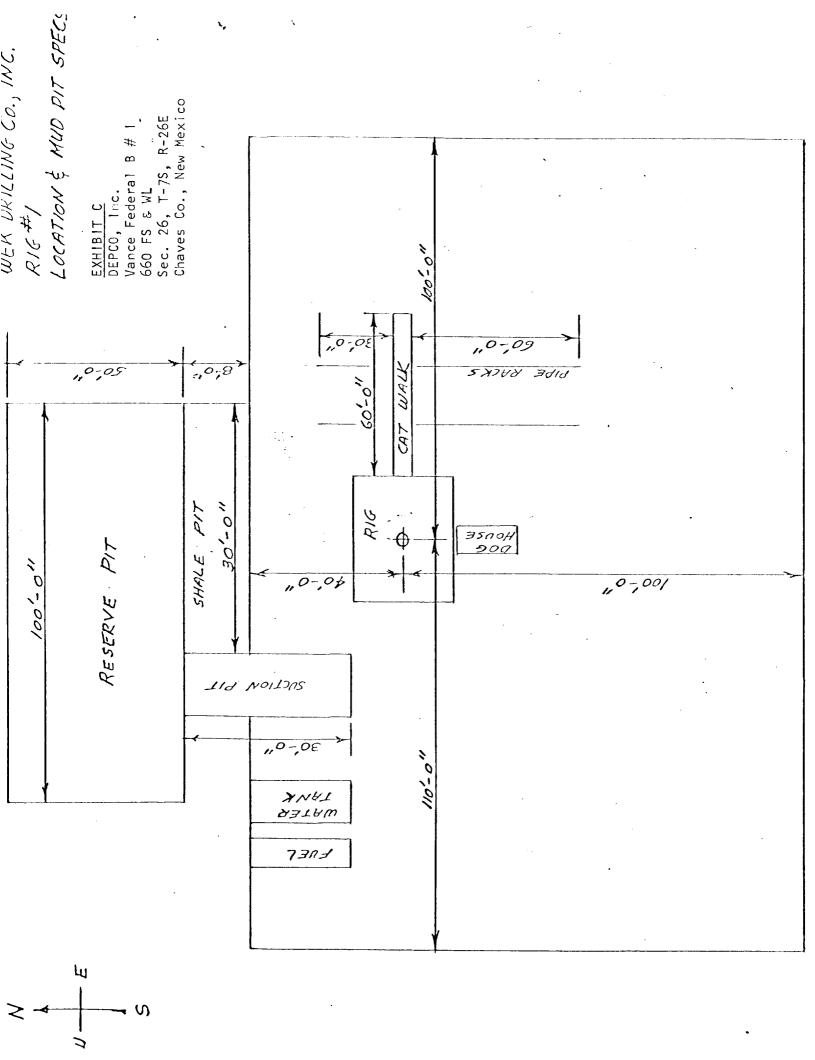
SAMMIE "BUD" HOLMES SALES & SERVICE REP. HOBBS, N.M. 505/392-3128

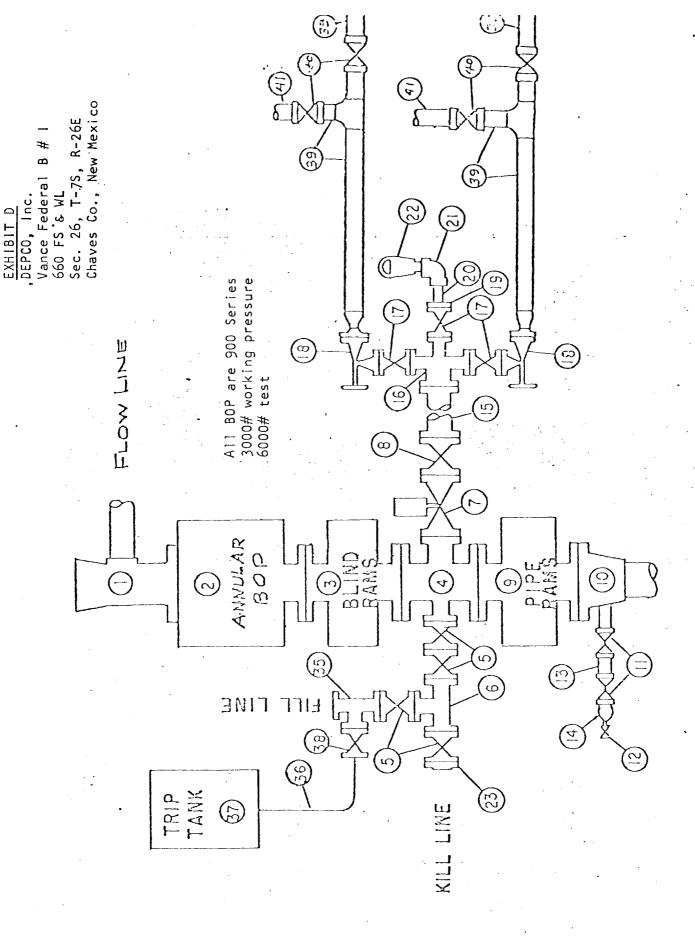
STEVE MARRS
SALES & SERVICE REP.
DENVER CITY, TEXAS
806/592-3163

JIM McNULTY SALES REP. MIDLAND, TEXAS 915/684-7218

MIKE SAMUELS
SALES & SERVICE REP.
ROSWELL, N.M.
505/623-5029

24 HOUR ANSWERING SERVICE 505/397-3291





DEPCO, Inc.

Exploration & Production



800 Central ODESSA, TEXAS 79760

March 10, 1982

United States Geological Survey P. O. Drawer 1857 Roswell, New Mexico 88201

Re: Surface requirements
Vance Federal B #1
660 FS & WL
Sec. 26, T-7-S, R-26-E
Chaves Co., New Mexico

Gentlemen:

The surface owner on the subject well, Gay M. Vance, has been contacted about surface damages and restoration of the surface. She has requested that her brother, Robert Marley, act in her behalf on this project and an agreement has been made as to the damages and restoration of the surface.

Sincerely,

R. L. Denney

Chief Production Clerk

R.L. Denney

RLD:vm