SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

HAUTED STATES

•	UNII	ED SINILS	JTT-	IOD		30-049	5-22760
DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION	AND SERIAL NO.
GEOLOGICAL SURVEY						NM 013642	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
	TON TEMPOR	<u> </u>		, , , , , , , , , , , , , , , , , , , ,			
1a. TYPE OF WORK DRII	LL 🅸	DEEPEN [PLUG BAC	K 🗌	7. UNIT AGREEMENT NA	ME
b. FYPE OF WELL OIL GA WEIL WI	S XX OTHER		SIN	GLE MULTIPE ZONE		8. FARM OR LEASE NAM	E
2. NAME OF OPERATOR						GARDNER 9. WELL NO.	
Koch Indust	ries Inc.						
3. ADDRESS OF OPERATOR	4-A						
P.O. Box 22	56, Wichita,	Kansas 6	7201			10. FIELD AND POOL, OR WILDCAT	
P.O. Box 2256, Wichita, Kansas 67201 4. IOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)						Blanco/Mesa Verde	
At surface 1030' FSL & 870' FEL				* - 1	11. SEC., T., R., M., OB BLK. AND SURVEY OR AREA		
At proposed prod. zone					:	Sec. 25-32N	-9W
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*						12. COUNTY OR PARISH	13. STATE
Appr. 20 miles NE of Bloomfield, N.M.						San Juan	N. Mexico
15. DISTANCE FROM PROPO			16. NO	. OF ACRES IN LEASE		F ACRES ASSIGNED	
L(CATION TO NEAREST PHOPERTY OR LEASE LINE, FT.		320			THIS WELL 320.78		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, Appr. 3700' OR APPLIED FOR, ON THIS LEASE, FT. east & north		19. PROPOSED DEPTH 2		l	20. ROTARY OR CABLE TOOLS ROTARY		
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					22. APPROX. DATE WO	RK WILL START*
	'0' GR						
23.	J GR	PROPOSED CASI	NG AND	CEMENTING PROGRA	AM		· · · · · · · · · · · · · · · · · · ·
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	001	SETTING DEPTH		QUANTITY OF CEMENT	
13-3/4"	10-3/4"	40.5#		200 '	25	0 sx	
8-3/4"	7"	20#		3800'		500 sx	
6-1/4"	4-1/2"	10.5#		6100'		5 sx	,
0 12-11 -1/21	.wh amt to ai	rculate 1	t to r 18	the surrace	w/Gel	-Benex type	mud &
TELL CHIC	new or teste	d to 5000)#) @	3800'. Cmt	w/enc	ough cmt to c	over the

Pictured Cliffs formation. WOC 24 hrs. Pressure test csg & BOP's to 3000# before drilling out.

3. 3" LWP Shaeffer double pipe & blind rams BOP's will be used. Check BOP's

each tour & blind rams each trip.

4. Orill 6-1/4" hole to TD. Set & cmt 4-1/2" 10.5# H-40 new csg to TD w/BOT liner hanger, cmt w/enough cmt to circulate out top of liner. WOC 24 hrs.

5. Well head equipment will consist of 2000# WP Brewster equipment for 10-3/4" surface & 7" intermediate casing. Over

IN ALOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive

preventer program, if any.	y, give pertinent data on subsurface locations and measured and true vertical depths. Give blowders
8 (G NED	6 TITLE Asst. Operations Manager 10-5-77
(This space for Federal or State office use)	
P SRMIT NO.	APPROVAL CATE
APPROVED BY	OCT 7 1977
Obal	*See Instructions On Reverse Side U. S. GTOLOGOMA

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 Any necessary special instructions concerning the use of this form perform certain well operations, as indicated, on all types of General: This form is designed for submitting proposals to 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.

Consult local

separate or on this reverse side, show-Federal or State agency offices. Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. or plats, Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by State or Federal office for specific instructions. the roads Ing

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.

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

Mud program will be as follows: Gel-lime slurry 0-200' Water & Benex 200-1800' Gel-Spersene Mud 1800-3800' Drill w/gas 3800- TD Anticipated BHP @ TD max. of 2000#. anticipated. Auxillary & BOP equipment on rig Double ram BOP Kelly cocks (if required)

Rotating drilling head Kill valve on rig floor (if required)

Complete well by swabbing csg dry. Perf Mesa Verde HPF & frac w/gelled KCl water & sand.

Development Plan for Surface Use GARDNER #4-A

- 1. Existing Roads: (Exhibit "A")

 Equipment and personnel will utilize U.S. Highway 550 approx. 12

 miles west of the location. The existing exit from the highway

 will be used.
- 2. Planned Access Roads: (Exhibit "A")
 Location is near an existing road with approximately 1/4 mile of new road needed.
- 3. Location of Existing Wells:
 The proposed well is approximately three-quarter miles east and north of an existing well.
- 4. Location of Tank Battery and Flow Lines:
 The tank battery will be built right on the drilling location near the proposed well. No additional land will be damaged.
- 5. Location and Type of Water Supply:
 The source water to be used in the drilling operation will be from
 the irrigation ditch on Highway 550 appr. 12 miles west of the
 proposed location. Water will be hauled in trucks.
- 6. Source of Construction Materials:
 All construction materials for this location are to be borrowed material accumulated during construction of the location site and access road. No additional materials are anticipated at this time.
- 7. Methods of Handling Waste Disposal:
 The drilling contractor will furnish a metal toilet. Cuttings, metal, wire, etc. that will not burn will either be buried or hauled off the location.
- 8. Ancillary Facilities:
 There are no planned ancillary facilities at this time.
- 9. Well Site Layout: (Exhibit "B")
 Will spot the small mobile rig in the most convenient manner on a compact drilling pad. No particular terrain or drainage problem is anticipated.
- 10. Plans for Restoration of the Surface:

 A minimum of the area will be disturbed to build the location. Upon completion of drilling, the area will be leveled and the pits either fenced or filled as soon as the rig is moved. All areas not needed in producing operations will be seeded with a mixture of five pounds crested wheat grass, five pounds intermediate wheat grass and three pounds nomad alfalfa to each acre. The planting to be done when conditions are favorable.
- 11. Other Information:
 The location is on a mesa top in rolling broken terrain of sandy,
 gravelly soil with some sandstone outcroppings. The area vegetation
 consists of: pinon, juniper, Gambel's oak, mountain mahogany, sage
 brush, antelope bitterbrush, prickly pear cactus and yucca.
- 12. Lessee's or Operator's Representative:

Delvin Echard 3605 North Dustin Street Farmington, New Mexico 87401 Mobile Phone (505) 325-1549 Home Phone (505) 325-0598

CERTIFICATION

1.0

have inspected the propo am familiar with the cor statements made in this and correct, and that the	, or persons under my direct supervision, sed drill site and access route; that I ditions which presently exist; that the plan are, to the best of my knowledge, true work associated with the operations performed by our contractor
and its contractors and plan and the terms and contractors.	sub-contractors in conformity with this onditions under which it is approved.
October 5, 1977 Date	Vernon 6. Lowe Assistant Operations Manager