SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

APPLICATION		T OF THE	INTERI	OR	side)	30-045-20 5. LEASE DESIGNATION	AND SERIAL NO.
_APPLICATIO	GEOLO	GICAL SURV	/EY			NOO-C-14-20-	-
	N FOR PERMIT	TO DRILL,	DEEPE	N, OR PLUG	BACK	6. IF INDIAN, ALLOTTER	
1a. TYPE OF WORK		DECDENI		51 U.S. 5.4	<i></i>	NAVAJO ALLOT	
DK. b. Type of well	ILL 🖾	DEEPEN		PLUG BA	CK 📋	. CHIL AGEREMENT N	
	AS OTHER	W.C.	SING		PLE	S. FARM OR LEASE NAM	(K
2. NAME OF OPERATOR						KO-SA	•
	Ludwick Exp		Co.			9. WELL NO.	
3. ADDRESS OF OPERATOR	P.O. Box 70					2	17
	Farmington	, New Mexic	o 874	01		10. FIELD AND POOL, O	R WILDCAT
4. LOCATION OF WELL (R. At surface	eport location clearly and			te requirements.*)		WILDCAT	P. (
	\	FWL, 1830'	LOT			11. SEC., T., R., M., OR E	BLK. Ea
At proposed prod. zon		Same				Sec. 23, T25M	
	AND DIRECTION FROM NEA					12. COUNTY OR PARISH	1
29 Mile 15. DISTANCE FROM PROPO	es SE Farmington	n, New Mexi		OF ACRES IN LEASE	1 17	San Juan	New Mexic
LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drig	T Line, et.	810'	16. NO.	160		of acres assigned his well 160	
18. DISTANCE FROM PROP TO NEAREST WELL, D	RILLING, COMPLETED,	1080'	19. PROP	OSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, ON TH	Poch us	allup	1400 P	ictured Cliff	`\$	Rotary	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)	(1.5)				22. APPROX. DATE WO	
23.		6475 Gr				9-6-1980)
		PROPOSED CASI	NG AND	CEMENTING PROGR	AM 		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	TOOT	SETTING DEPTH		QUANTITY OF CEMEN	Т
<u>8-3/4</u>	7	24#	,	90'		50 sx Circ	
4-3/4	2-7/8	6.5#	<u> </u>	1400	-	200 sx Circ	
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*See Instructions On Reverse Side

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

All distances must be from the cuter boundaries of the Section.

Operator			Lease	1/	, ,	Well No.
LUDWICK E	XPLORATION CO.		<u> </u>	// 0	D - JA	1 2 1
Unit Letter	Section	Township	Range	Cou	•	
K Actual Footage Loc	23	25N	11W		San Juan	
1830		outh line and	1800		the West	
Ground Level Elev.	Producing For		Pool	feet from	the WODU	line Dedicated Acreage:
6475	1	ured Cliffs	Wild	lcat		160 Acres
		ted to the subject w			hure marks on th	
1. Outline the	e acreage dedica	ted to the subject w	en by conored	pencir or nav	little marks on th	te plat below.
interest an	d royalty).					hereof (both as to working
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Yes	No If a	nswer is "yes;" type o	of consolidation	n ac		
		owners and tract desc	criptions which	h have actual	ly been consolida	ated. (Use reverse side of
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FORMATION INFORMATION & DRILLING PRACTICE

1. Geologic name of surface formation.

ANIMAS SS

2. Estimated tops of important geologic markers.

m/o.*n		1
T/0J0		350
B/OJO		450
FRUITLAND		900
PICTURED CLIFFS	-	1250

3. Estimated depths at which anticipated water, oil, gas or other mineral-bearing formations are expected.

Water	0 - 500
Gas	1250

4. Proposed casing program.

Surface:

7", 24#, Used casing to be set @ 90', Cement will be 50 sx Class B, 2% CaCl or adequate to circulate.

Production:

2-7/8", 6.5# K-55, new casing to be set at 1400', cement will be 100 sx 50/50 Poz, plus 100 sx Class E, 2% CaCl or adequate to circulate.

5. Specifications for pressure control equipment.

The attached schematic shows the type of blow out preventer to be used. while drilling. The unit will be tested to 200 psi as soon as possible after its installation on the surface pipe. Testing will be done with the rig pump. This is a manual type preventer, and its operation will be manually checked when practical.

6. Drilling fluids.

Depth	Туре	Viscosity	Weight	Fluid Loss (cc)
0-100	Gel-lime	35 -45	8.6-9.0	N/C
100-1400	Low-solids	29 - 33	8.4-8.8	15

7. Auxiliary equipment.

- a. bit float
- b. full opening stabbing valve to be used when kelly is not in the string

B. Logging - Coring - Testing.

Logging: Induction Electric Log, Formation Compensated Density, Gamma Ray Caliper

Coring: None

Drill Stem Testing: None

9. Abnormal temperatures, pressure, or hazardous conditions.

None expected

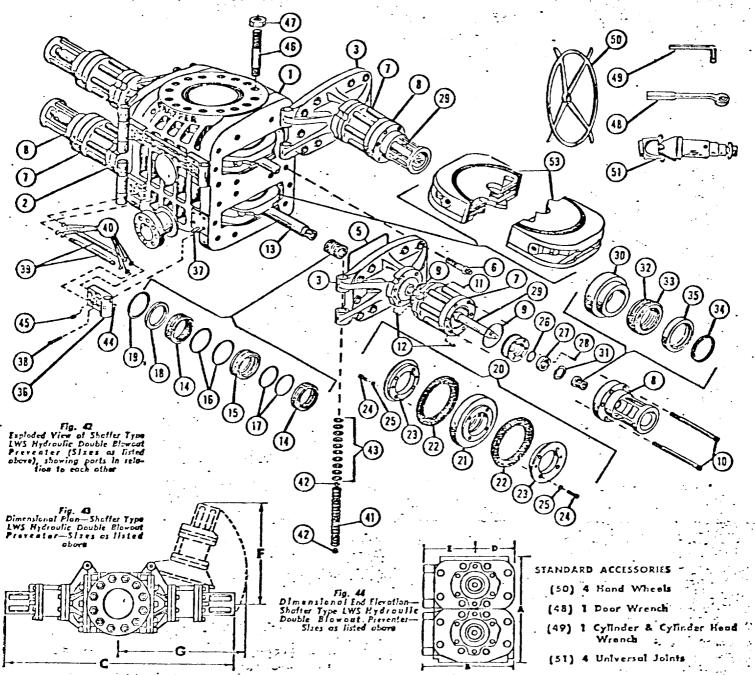
10. Starting Date.

Anticipated starting date is October 1, 1980 Approximately six days will be needed to build roads and location and drill the well to total depth. If commercial, completion will commence immediately and require ten days.

SHAFFER HYDRAULIC BLOWOUT PREVENTERS (Palanted)

TYPE LWS PREVENTERS—8", 3000 lb. & 5000 lb.—10", 5000 lb.
12", 3000 lb.—13'/8", 5000 lb.—16", 3000 lb.

PARTS AND DIMENSIONAL ILLUSTRATIONS -



DIMENSIONAL AND ENGINEERING DATA ON ABOVE SIZES OF TYPE LWS PREVENTERS

Refer to Figs. 43 and 44

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13 POINT SURFACE USE PLAN

1. EXISTING ROADS: (Shown in Green)

The attached topographic map shows all existing roads within (3) miles of the proposed location. All roads are in fair condition and will require a minimal amount of work to upgrade them to handle normal drilling activity traffic.

2. PLANNED ACCESS ROAD (Shown in Red)

Width: 20' flat bladed.

Maximum Grades: 2% or less, road is flat.

New road required:

No cut, fill, turnouts, culverts or gates will be required.

Water bars will be consistant with existing drainage pattern.

- 3. LOCATION OF EXISTING WELLS: Map attached.
- 4. LOCATION OF EXISTING OR PROPOSED PRODUCTION FACILITIES:
 - A. All production facilities are to be contained within the proposed location.
 - B. Production facilities are present on wells as per 3. above.
- 5. LOCATION AND TYPE OF WATER SUPPLY:

HILL TOP th. M.

6. SOURCE OF CONSTRUCTION MATERIAL:

Any construction material required for road or location will be excess materials accumulated during building of such sites.

- 7. METHOD FOR HANDLING WASTE DISPOSAL:
 - 1. The cuttings will be retained in the reserve pit.
 - 2. Drilling fluids will be contained in a reserve pit or mud tanks until well is completed.
 - Oil will be collected in tanks. Little or no water is anticipated at this location. If volume of oil is sufficient, it will be trucked from location.
 - 4. A portable toilet will be provided.
 - 5. A fenced pit will be provided for trash. The trash pit will be enclosed with small mesh wire. The reserve pit will be fenced.
 - 6. Location and mud pits will be leveled and seeded as soon as feasible after well is completed. The area will be cleaned of all trash and materials.

Page - 2

8. ANCILLARY FACILITIES:

No camps or airstrips will be constructed.

9. WELL SITE LAYOUT:

The attached layout shows the drilling rig with all supporting facilities. Cut and fill, required for pad construction, is also shown.

10. SURFACE RESTORATION PLANS:

Restoration of the well site and access road will begin within 90 days of well completion, weather permitting.

Should the well be abandoned, the drilling site will be reshaped to its approximate former contour. The access road will be plowed and leveled. Both road and location will have top soil replaced and will be reseeded when germination can occur.

Should the well be commercial, that portion of location not needed for operation will be repaired as above. The portion of the location needed for daily production operations, and the access road, will be kept in good repair and clean.

In either case, cleanup of the site will include burning any safely burnable material, filling of all pits, and proper disposal of any nonburnable material that can not be safely buried. Any oil that has accumulated on the pits will be trucked away.

11. OTHER INFORMATION:

- A. General topography of the area may be seen on the attached map.
- B. There were no archaeological or cultural sites visible on the location. The archaeologist's report is forthcoming.

C.	Animal life:	SMALL-WILD
D.	Dwellings:	NONE
E.	Drainage:	NW
F.	Surface Owner:	IND. ALLOTTED
G,	General location:	SE BISTI

12. OPERATOR REPRESENTATIVES:

C. C. KENNEDY 6109 DEL CAMPOPL, N.E. ALBUQUERQUE, N.H. 87109 PADONE (505) 883-9624

13 POINT SURFACE USE PLAN - continued

Page - 3

13. CERTIFICATION:

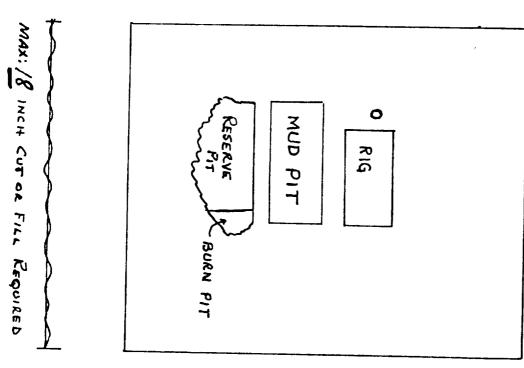
I hereby certify that I or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are to the best of my knowldge; true and correct; and, that the work associated with the operations proposed herein will be performed by operator, and his contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

laude C. Kennedy

Date: 8-20-1980

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LOCATION LAYOUT



SCALE LINCH = 30 FEET

MAX: 18 INCH CUT OR FILL REQUIRED

 $\frac{1}{2} \times \frac{1}{16} \times$

