

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

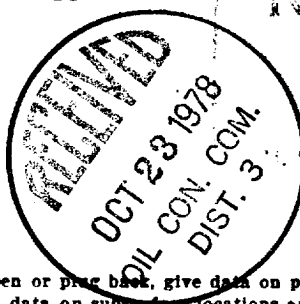
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. 14-20-5248	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
2. NAME OF OPERATOR Ludwick Exploration Company			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Box 2614, Farmington, New Mexico 87401			8. FARM OR LEASE NAME Ka Na Pah	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 840' FNL, 1850' FEL Section 22-T25N-R11W At proposed prod. zone			9. WELL NO. 1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 28 miles from Farmington			10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 22-25N-11W	
16. NO. OF ACRES IN LEASE 160			12. COUNTY OR PARISH San Juan	
17. NO. OF ACRES ASSIGNED TO THIS WELL 160			13. STATE NM	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1500'			20. ROTARY OR CABLE TOOLS rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6401' GL			22. APPROX. DATE WORK WILL START* July 15, 1978	

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
7-7/8"	5-1/2"	14#	85'	50 sacks
4-3/4"	2-7/8"	6.5#	1500'	200 sacks

We propose to test the Pictured Cliffs formation at this location by drilling a 4-3/4" slimhole to a TD of 1500' using a portable rotary rig and mud. Low bottom hole pressure is anticipated and a BOP will not be used. The well will be completed on the basis of open hole resistivity and porosity logs and a master casing valve and stripper head will be used during completion.



OCT 12 1978

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 Mildred Likew Kuchwa TITLE Chemical Engineer DATE _____

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

NMOC

**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.

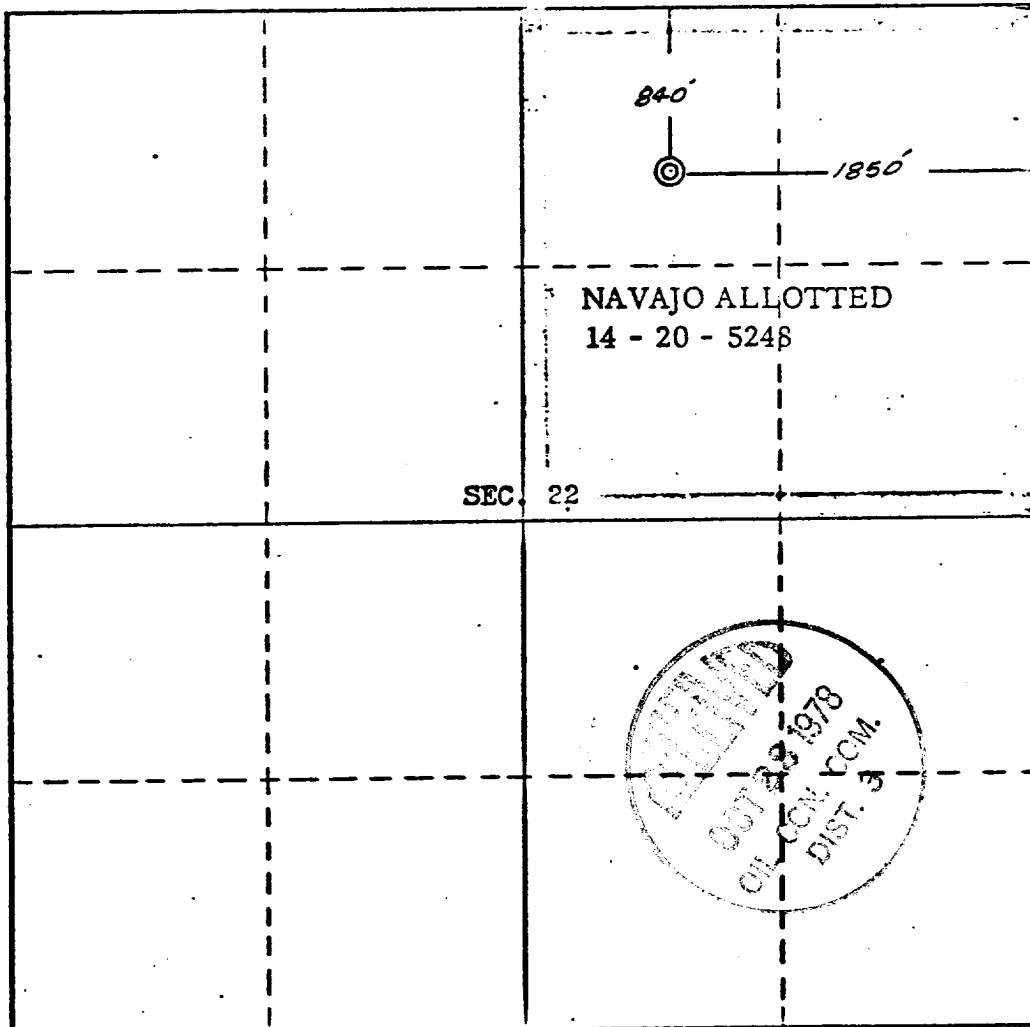
Operator Ludwick Exploration Company			Lease KA NA PAH		Well No. 1
Unit Letter B	Section 22	Township 25 North	Range 11 West	County San Juan	
Actual Footage Location of Well:					
840 feet from the		North	line and	1850 feet from the	East line
Ground Level Elev. 6401	Producing Formation PICTURED CLIFFS		Pool WILDCAT		Dedicated Acreage: 160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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).
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 1 - owner lease

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

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.

Mildred Liknes Kuchera

Name
Mildred Liknes Kuchera

Position
Chemical Engineer

Company
Ludwick Exploration Co.

Date
May 15, 1978

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 13, 1978

Registered Professional Engineer
and/or Land Surveyor

Edgar L. Risenhoover
Certificate No. 5979
Edgar L. Risenhoover, L.S.

Report 78-SJC-074A
Permit 75-NM-018

**An Archaeological Clearance Survey of
Three Proposed Well Locations Conducted
for Ludwick Exploration Company**

**Billy J. Naylor
Coordinator, Cultural
Resource Management Program
San Juan Campus
N. M. State University
17 May 1978**

**An Archaeological Clearance Survey of
Three Proposed Well Locations Conducted
for Ludwick Exploration Company**

On May 17, 1978, Billy J. Naylor of New Mexico State University's Cultural Resource Management Program, San Juan Campus, conducted an archaeological clearance survey of three proposed well locations for Ludwick Exploration Company at the request of Mr. Aldrich L. Kuchera.

Mr. Kuchera and Mr. Ray Foster of the U. S. Geological Survey were present during the inspections.

The proposed locations were inspected, under Federal Antiquities permit 75-NM-018, by walking transects across an approximate 250 X 250 foot area.

Proposed Well: KO SA #1

Land Status: Navajo Allotted lands

Location: 870 feet from the south line and 1850 feet from the west line of Section 23, Township 25 North, Range 11 West, N.M.P.M., in San Juan County, New Mexico. (Figure 1)

Access: Adjacent to existing road and non producing well, EBU #29. No new access.

Pad Size: 150 X 150 feet.

Terrain: Rolling stabilized dunes.

Soil: Aeolian sand.

Vegetation: Ephedra, blue grama, broom snakeweed.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

Proposed Well: EAST CARSON NAVAJO #1

Land Status: Navajo Allotted lands

Location: 790 feet from the south line and 1850 feet from the east line of Section 23, Township 25 North, Range 11 West, N.M.P.M., in San Juan County, New Mexico. (Figure 1)

Access: Approximately 200 feet north of existing but deteriorated road which was walked from proposed well KO SA #1.

Pad Size: 150 X 150 feet.

Terrain: Rolling stabilized dunes.

Soil: Aeolian sand.

Vegetation: Sagebrush, Ephedra, broom snakeweed, and blue grama.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

Proposed Well: KA NA PAH

Land Status: Navajo Allotted lands

Location: 840 feet from the north line and 1850 feet from the ^{EAST} ~~west~~ line of Section 22, Township 25 North, Range 11 West, N.M.P.M., in San Juan County, New Mexico. (Figure 1)

Access: Adjacent to existing road. No new access.

Pad Size: 150 X 150 feet.

Terrain: Gently rolling dunes.

Soil: Aeolian sand.

Vegetation: Sagebrush, Ephedra, broom snakeweed, and grama.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

HUERFANO TRADING POST NW, N. MEX.

N3622.5-W10752.5/7.5

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