CORRECTED COPY

SUBMIT IN TRIPLICATE*

(Other instructions en reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES (Other Instruction reverse side) DEPARTMENT OF THE INTERIOR

DEEPEN DELLE, DELLE, ON TUDO BACK NAVAJO NAVA			. 0	Litton		5. LEASE DESIGNATION AND SERIAL NO.	
DEPEN DILL W DRILL W OWNER DOTAL SATE OF CALLED DATE OF CALLED DAT		14-20-5248					
DEPEN	APPLICATIO	N FOR PERMIT	TO DRILL D	FEPEN OR PLLI	GRACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
DRILL S OTHER DEPEN PLUG BACK STATE OF THE S		TO TOK TERMINI	LECTIV, ON TEO	OBACK			
LANGE OF FRANCE LANGE OF OFFEATOR LANGE OF OFFEATOR LUNCK Exploration Company ABORDAN OF OFFEATOR LUNCK Exploration Company ARE PAN LUNCK Exploration Process and the accordance with any State requirements. AN EXPLORE PAN APPROPRIATE ALL MORE REAL MAR PAN LUNCK FROM FROM FROM 11 PAN BERG CATE IN MAR PAN LUNCK FROM FROM FROM 11 PAN LUNCK FROM FROM FROM 12 PAN LUNCK FROM FROM FROM 13 PAN BERG CATE IN MAR PAN LUNCK FROM FROM FROM 13 PAN APPROPRIATE ALL MORE FROM FROM FROM PAN LUNCK FROM FROM FROM FROM FROM FROM PAN BERG CATE IN MAR PAN LUNCK FROM FROM FROM FROM FROM FROM PAN LUNCK FROM FROM FROM FROM FROM FROM FROM FROM		RILL X	BACK []	7. UNIT AGREEMENT NAME			
**************************************	b. TYPE OF WELL				J	:	
Ludwick Exploration Company 1. Addition of P. O. Box 2614, Farmington, New Mexico 87401 10. Fill of Fill of Not College 11. 840' FNL, 1850' FEL Section 22-T25N-R1IW 4. DISTANCE IN MILES AND DIRECTION FROM PRABEST TOWN OR FOST OFFICE' 28 miles from Farmington 5. DISTANCE FROM PROPOSEDED FROM PRABEST TOWN OR FOST OFFICE' 28 miles from Farmington 6. DISTANCE FROM PROPOSEDED FROM PRABEST TOWN OR FOST OFFICE' 28 miles from Farmington 6. DISTANCE FROM PROPOSEDED FROM PRABEST TOWN OR FOST OFFICE' 29 DISTANCE FROM PROPOSEDED FROM PRABEST TOWN OR FOST OFFICE' 20 DISTANCE FROM PROPOSEDED FROM PRABEST TOWN OR FOST OFFICE' 20 DISTANCE FROM PROPOSED CASHED TO THE MARKET TOWN OR FOST OFFICE' 3. DISTANCE FROM PROPOSED CASHED TO THE MARKET TOWN OR FOST OFFICE TOWN OF THE MARKET TOWN OR FOST OFFICE TOWN OF THE MARKET TOWN OR FOST OFFI WHILE FROM PROPOSED DEFT TO						8. FARM OR LEASE NAME	
Department of the property of	NAME OF OPERATOR		- · · · · · · · · · · · · · · · · · · ·			Ka Na Pah	
P.O. Box 2614, Farmington, New Mexico 87401 10. Field and Food, of Wildcat 11. Section 22-T25N-R1IW 11. Section 22-T25N-R1IW 12. COUNTY of PARISH IN STATE 28. miles from Farmington 28. miles from Farmington 10. No. of acres assisted Proposed Prod. of Review of Roll of San Juan NM 28. miles from Farmington 10. No. of acres in Lease 104, From Parish In Santa San Juan NM 28. miles from Farmington 19. Proposed Prod. of Review of Roll of San Juan NM 28. miles from Farmington 10. No. of acres assisted Proposed San Juan NM 29. Determine No. of This Lease 104, From San Juan NM 20. Edited Prod. of Roll of San Juan NM 20. Edited Prod. of	Ludwick	Exploration Co	mnany		<i>:</i>		
Milecat **BAO*** FNL**, 1850* FEL Section 22-T25N-R1IW** **Reference Section 22-T25N-R1IW** **A proposed prod. 2008** **B DISTANCE FOR MILES AND DIRECTION FROM NEAREST TOWN OR FORT OFFICE** **DISTANCE FOR MILES AND DIRECTION FROM NEAREST TOWN OR FORT OFFICE** **B DISTANCE FOR MERCHAND FROM SECTION FROM SECTION FOR THE PROPOSED PROTECTION TO SEARCH FOR PROPOSED LOCATION** **B DISTANCE FORM FROM FROM SECTION FROM FROM FROM FROM FROM FROM FROM FROM	. ADDRESS OF OPERATOR		pairy			1	
Milecat **BAO*** FNL**, 1850* FEL Section 22-T25N-R1IW** **Reference Section 22-T25N-R1IW** **A proposed prod. 2008** **B DISTANCE FOR MILES AND DIRECTION FROM NEAREST TOWN OR FORT OFFICE** **DISTANCE FOR MILES AND DIRECTION FROM NEAREST TOWN OR FORT OFFICE** **B DISTANCE FOR MERCHAND FROM SECTION FROM SECTION FOR THE PROPOSED PROTECTION TO SEARCH FOR PROPOSED LOCATION** **B DISTANCE FORM FROM FROM SECTION FROM FROM FROM FROM FROM FROM FROM FROM	P.O. Box	c 2614. Farming	ton. New Mer	xico 87401		10. PIELD AND POOL, OR WILDCAT	
At proposed yrod, 2018 At proposed yrod, 2019 At	LOCATION OF WELL (Report location clearly and	d in accordance with	any State requirements.	2)	.i	
4. DISTANCE IN MILES AND DISECTION FROM NEAREST TOWN OR FOST OFFICE* 2. DISTANCE IN MILES AND DISECTION FROM NEAREST TOWN OR FOST OFFICE* 2. DISTANCE FROM PROPURED: LOCATION TO SEREST PROPERTY OR LEASE INTEGER. 1. NO. OF ACRES IN LEASE 1. NO. OF ACRES IN LEASE 1. NO. OF ACRES IN LEASE 1. NO. OF ACRES ASSOCIATED. 1. DISTANCE FROM PROPURED: 1. DISTANCE FRO		T 10501 FFT C	!	-11 1111111			
4. DISTANCE IN MILES AND DESCRIBE FROM PRADE POR PRADE POWN OR FOST OFFICE. 28 miles from Farmington 5. DISTANCE FROM PROPUSED: 28 miles from Farmington 10. NO. OF ACRES IN LEASE 11. NO. OF ACRES ASSIGNED 70 THE WELL 160 10. PROPOSED DEFTER 160 10. PROPOSED DEFTER 160 10. PROPOSED DEFTER 10. ROTATY OR CARLE ASSIGNED 70 THE WELL 160 10. PROPOSED DEFTER 10. ROTATY OR CARLE TOOLS 1			ection 22-12:	ON-RIIW	•	1	
DISTRICT FROM FROM FROM FARMINGTON DISTRICT FROM FROM FROM FROM FROM FROM FROM FROM	ar proposed prod. so				•	22-25N-IIW	
DETENTED FROM PEROPOSED DETENTED TRADE PEROPOSED LOCATION TO NAMES TO NAMES TO STATE DESCRIPTION TO STATE DESCRIPTION OF STATE DESCRIPTI	4. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST	OFFICE*		12. COUNTY OR PARISH 13. STATE	
B. DISTANCE FROM PAGESTATE DOCATION TO NAMEST DOCATION DOCATION	28 miles	s from Farmingt	on			1	
Secretion to Starse Fig. 160	5. DISTANCE FROM PROP	USED*		G. NO. OF ACRES IN LEAS	8# 17. 30. (
8. DISTANCE PROM PROPOSED LOCATION* TO NAMES WHILE DESIGN. COMPLETED. TO NAMES WHILE POS. ON THIS LEASE. 77. LEWINDRO (S. ON THIS LEASE. 77. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF ROLE SIZE OF ROLE SIZE OF CASING WEIGHT PER POOT SETTING DEPTH OCATITY OF CEMENT 7-7/8" 5-1/2" 14# 85' 50 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 portosity. logs and a master casing valve and stripper head will be used during completion. OCT 1 2 1578 OCT 1 2 1578 THE Chemical Engineer Chemical Engineer DATE APPROVED BY APPROVED BY TILLS DATE TILLS PATES TILLS PATES APPROVED BY TILLS 1500' 20. ROTARY OR CASILE TOOLS TOLATY 22. APPROX. DATE WORK WILL START TOLATY 22. APPROX. DATE WORK WILL START 12. APPROX. DATE WORK WILL START 12. APPROX. DATE WORK WILL START 22. APPROX. DATE WORK WILL START 1500' 22. APPROX. DATE WORK WILL START 1500' 24. APPROX. DATE WORK WILL START 1500' 25. APPROX. DATE WORK WILL START 1500' 26. APPROX. DATE WORK WILL START 1500' 26. APPROX. DATE WORK WILL START 27. APPROX. DATE WORK WILL START 27. APPROX. DATE WORK WILL START 28. APPROX. DATE WORK WILL START 28. APPROX. DATE WORK WILL START 28. APPROX. DATE WORK WILL START 29. APPROX. DATE WORK WORK WILL START 29. APPROX. DATE WORK WORK WILL START 29. APPROX.	PROPERTY OR LEASE	LINE, FT.					
TO NEAREST WELL, DELILING, COMPLETED, CONTRIBLEAS, FT. 1500' FOTATY L REMYATIONS (Show whether DF, RT, GR, etc.) 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" 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. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or Proc best, give days on present productive some and proposed new productive some and drive vertical depths. Give blowderener program. If any. Chemical Engineer Chemical Engineer DATE DATE APPROVED BY TITLE PARTS PARTS APPROVED BY TITLE PARTS APPROVED BY TITLE PARTS							
1. BLEVATIONS (Show whether DP, RT, GR, etc.) 6401' GL PROPOSED CASING AND CEMENTING PROGRAM BILL OF ROLE 114 PROPOSED CASING AND CEMENTING PROGRAM BILL OF ROLE 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. BADYE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or proceeding the stripper head will be used during completion. COLI 12 1378 Chemical Engineer Chemical Engineer DATE PRATE DATE APPROVAL DATE APPROVAL DATE DATE DATE DATE DATE PARE PROPOSED CASING AND CEMENTING PROGRAM BULL START OF CEMENT CHEMICAL CASH AND	TO NEAREST WELL, I	DRILLING, COMPLETED,			20. EOTA	EY OR CABLE TOOLS	
PROPOSED CASING AND CEMENTING PROGRAM BILE 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. BADVE STACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or Proched, give dash on present productive sone and proposed new productives. If proposal is to drill or deepen directionally, give pertinent data on substructed contains and measured and true vertical depths. Give blower wenter program, if any. Chemical Engineer Chemical Engineer DATE			<u></u>	1500'	l rol		
BIER OF ROLE SIZE OF ROLE SIZE OF ROLE SIZE OF CASING SIZE OF ROLE SIZE OF CASING 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 1378 OCT 12 1378 CHEMICAL SIZE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or Proched, give dash on present productive some and proposed new productive senter program, if any. Chemical Engineer Chemical Engineer DATE		emer Dr. Kl. GR. etc.)				22. APPROX. DATE WORK WILL START*	
SIZE OF ROLE SIZE OF ROLE 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 1378 COT 12 1378 COT 12 1378 CHEMICAL ALLERS PROPOSED PROGRAM: If proposal is to deepen or Proposed for give days on present productive some and proposed new productive. If proposal is to drill or deepen directionally, give pertinent data on submission focations and measured and true vertical depths. Give blowd wenter program, if any. Chemical Engineer DATE APPROVAL DATE DAT					·	July 15, 1978	
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 1 2 1578 ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or Prot best, give dark on present productive sone and proposed new productive see. If proposal is to drill or deepen directionally, give pertinent data on submirates locations and measured and true vertical depths. Give blower extended to the proposed of the proposed in the proposed is to drill or deepen directionally, give pertinent data on submirates locations and measured and true vertical depths. Give blower extended to the proposed of the p	w.	1	PROPOSED CASING	AND CEMENTING PR	OGRAM		
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 portosity logs and a master casing valve and stripper head will be used during completion. OCT 1 2 1578 OCT 1 2 1578 COUNTY STACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or Put body, give dark on present productive sone and proposed new productive renter program, if any. Chemical Engineer (This space for Federal or State office use)	SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	r SETTING DEPTH		QUANTITY OF CEMENT	
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 portosity logs and a master casing valve and stripper head will be used during completion. OUT 12 1378 CUT 12 1378 CUT 12 1378 COUT 12 1378 CHARGE PROFESED PROFESED PROFESEN: If proposal is to deepen or Prof. give dark on present productive sone and proposed new productive renter program, if any. Chemical Engineer Chemical Engineer APPROVED BY APPROVED BY DATE DATE DATE DATE DATE DATE	7- 7/8"	5-1/2"	14#	85'	5	50 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 OCT 12 1978 ABOVE SPACE DESCRIBE PROPOSED PROGEAM: If proposal is to deepen or prog body, give during on present productive sone and proposed new productive. If proposal is to drill or deepen directionally, give pertinent data on subbarries locations and measured and true vertical depths. Give blowderenter program, if any. Chemical Engineer (This space for Federal or State office use)	4-3/4"	2-7/8"	6.5#	1500'			
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 1378 ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or page back, give dark on present productive sone and proposed new productive see. If proposal is to drill or deepen directionally, give pertinent data on substitute locations and measured and true vertical depths. Give blower eventer program, if any. Chemical Engineer OCT 12 1378 Chemical Engineer DATE APPROVAL DATE DATE						O SUCKO	
Chemical Engineer (This space for Federal or State office use) PREMIT NO	Low bott well will logs and completion ABOVE SPACE DESCRIBE	om hole pressur be completed or a master casing on. PROPOSED PROGRAM: If ; drill or deepen directions	re is anticipate the basis of valve and st	ted and a BOP very form of the proper head will or proper beat, give date	will not be istivity and I be used	used. The d porosity during 2 1978	
(This space for Federal or State office use) PERMIT NO	-	, 0,1		Chemical En	minee*		
APPROVED BY DATE	SIGNED THINK	M Cikney X	UCKISA) TITLE	Chomical Ell	2mcc1	DATE	
APPROVED BY DATE	(This space for Fede	ral or State office use)					
APPROVED BY DATE			·				
				AFFECVAL DATE			
	ARROAFIN TV				•1 7		
		AL, IF ANY:	TITLE			DATE	
$ au_{ij}$. The second of the second of the second of the second of $ au_{ij}$. The second of $ au_{ij}$						and the second s	
					<u>:</u>		

*See Instructions On Reverse Side

NMOCC

N_4 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.

-				11	150		Well No.				
Ludwick Exploration Company KA NA PAH KA NA PAH							1				
Unit Le	tter	Section	Township		Range	County ·					
1	В	22	2	5 North	11 West	San Juan					
Actual I	Footage Loca	tion of Well:									
840 feet from the North line and 1850 feet from the East line											
	Level Elev. 6401	Producing For		Poo		т	Dedicated Acreage:				
	040T	PICTUR	ED CLI	rr5	WILDCA	1	160 ècres				
2.]	1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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?											
į [Yes	X No If an	swer is "	yes," type of co	nsolidation1.	- owner lease					
t I	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.										
		1					CERTIFICATION				
-			SEC.	NAVAJO 14 - 20 -	ALLOTTED 524ß	Modice Name Mildre Position Chemic Company Ludwi Date May 1	certify that the well location this plat was platted from field actual surveys made by the or supervision, and that the same				
		 				May 1 Registered and/or Lan	3 1978 Frotessional Engineer d Surveyor				
			0 2310 26	40 2000	1500 1000 8		rio. 5979 L. Risonhoover, 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 nom 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 deteriated

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 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.

