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	UNIT	ED STATES	; NTFRI	IOR	reverse sic	le)	30 .095-		
DEPARTMENT OF THE INTERIOR							5. LEASE DESIGNATION	AND SERIAL NO.	
GEOLOGICAL SURVEY							NM-1106 6. IF INDIAN, ALLOTTI	CE OR TRIBE NAME	
APPLICATION	Y FOR PERMIT T	O DRILL, [	DEEPE	N, OR I	PLUG B	ACK_			
1a. TYPE OF WORK DRI	LL 🖄	DEEPEN [		PL	UG BAC	ж 🗆	7. UNIT AGREEMENT	NAME	
b. TYPE OF WELL  OIL GAS WELL X OTHER SINGLE X MULTIPLE ZONE					.E	8. FARM OR LEASE NA			
2. NAME OF OPERATOR  Kirby Explor	ration Company						Alley Federa		
3. ADDRESS OF OPERATOR	15 Houston To	vac 77001				-	10. FIELD AND POOL	OR WILDCAT	
4. LOCATION OF WELL (R At surface 1850 FNL &	45, Houston, Te eport location clearly and 790' FWL	n accordance wit	h any St	ate requirem	nents.*)		Wildcat - 11. SEC., T., R., M., OR AND SURVEY OR	etured Cliffs	
At proposed prod. 2011 Same							Sec 4, T24N	R8W	
	AND DIRECTION FROM NEAR			•			San Juan	New Mexico	
/ Miles Soul	theast of Blanco	Trading P	16. NO.	OF ACRES I	N LEASE		F ACRES ASSIGNED	1 New Hexteo	
PROPERTY OR LEASE I	LINE, FT. 700	1		644			160 (59.2		
18. DISTANCE FROM PROPOSED LOCATION* 19. PROPOSED DI				POSED DEPTI	AI.	20. ROTAR	Rotary		
21. ELEVATIONS (Show wh						•	22. APPROX. DATE W	ORK WILL START*	
		69	39 GR			3	12-30-76	<u> </u>	
23.	P	ROPOSED CASII	NG AND	CEMENTIN	G PROGRA	M		4	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	0 <b>0T</b>	SETTING	DEPTH		QUANTITY OF CEM		
12¼"	8 5/8	23#		90'		_75_sa	75 sacks class "B" + 2% CaCL		
614"	4 1/2	10.5		23001		150 s	acks class "	$\frac{3" + 2\% \text{ CaCE}_2}{10\%}$	
		المناس ال	1 21.11	ha]a +a	00 foo	1		oz mix + 12% <sup>2</sup>	
8 5/8 casing 6" 900 serie abnormal pre	ig up rotary too g and cement as es blow out prev essure or temper l depth with mud	indicated enters and ature are	above test expec	. Wait . Dril ted. W	on cem 1 6¼" h ell wil	ent 12 ole to l be dr	hours. Insta 2300 feet. l illed with go	all No≕: el-chem	
and 30-40 v DIL, FDC-CNI 4½" casing v	iscosity. Upon L and GR-Caliper will be run and	reaching t will be r cemented a	otal un. s abo	depth o If comm ve. If	pen hole ercial the we	e logs, product 11 is r	consisting of co	ot ated,	
same will be	e plugged and ab	andoned as	per	U.S.G.S	. instr	uctions		i digitali di salah d	
	nis lease is not					resent produ	UECE 197	6 sed new productive	
zone. If proposal is to preventer program, if an	e PROPOSED PROGRAM: If p drill or deepen directional ly.	lly, give pertinen	t data o	n subsurface	locations an	nd measured	land true vertical dep	ths. Give blowout	
24.	111 - 10	2460	Α	gent		.:	12-	10-76	

William T. Jones (This space for Federal or State office use) PERMIT NO. APPROVED BY \_\_\_\_\_\_CONDITIONS OF APPROVAL, IF ANY: Okal \*See Instructions On Reverse Side

	All di	stances must be from th	ne outer boundaries	of the Section.				
Operator		Lea	se		Well No.			
Kirby Explor	ation Company	1 ,	Mlcy-Federa	1	1			
	ection Townsin		Range	County				
E	լ 21/10		W8	San Jua	an			
Actual Footage Locati								
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Ground Level Elev.	Producing Formation	line and ()		eet nom the	Dedicated Acreage:			
	Picture Cli		Wildcat		160			
6939					7 7 7 7 Acres			
1. Outline the	acreage dedicated to t	he subject well b	y colored pencil	or hachure marl	ks on the plat below.			
2. If more than interest and		ed to the well, ou	tline each and id	dentify the owne	ership thereof (both as to working			
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Yes	No If answer is	"yes;" type of cor	nsolidation					
If answer is this form if n		and tract descripti	ons which have	actually been co	onsolidated. (Use reverse side of			
	· · · · · · · · · · · · · · · · · · ·	well until all into	rests have has-	consolidated (	by communitization, unitization,			
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sion.								
41,47	41.48	1			CERTIFICATION			
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	1				tained herein is true and complete to the			
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	1		AND TO THE		notes of actual surveys made by me or			
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# 3E COMPANY, INC.

Engineering • Energy • Exploration

P. D. Box 190 -:- 505/327-4020

FARMINGTON, NEW MEXICO 87401

December 10, 1976

U.S. Department of Interior Geological Survey P.O. Box 959 Farmington, NM 87401

Attention: Mr. Phil T. McGrath

District Engineer

RE: Development Plan for Surface Use Kirby Exploration Company Alley Federal #1 1850' FNL & 790' FWL Sec 4, T24N, R8W

Wildcat

San Juan County, New Mexico

#### Gentlemen:

Attached for your approval is the "Application for Permit to Drill" (form#9-331C) for the captioned well. Also enclosed as support data for the Development Plan are the following reports and plats: Archaeological Report, Surveyor's Plat, Drill Site Plat, and Vicinity Map. The location has been inspected by Mrs. Nancy Hewett of the Agency of Conservation Archaeology, Mr. Bob Moore of the BLM, and Mr. M. L. Seelinger and Mr. Ray Swanson of the U.S.G.S.

The development plan for surface use is as follows:

Points 1 & 2 Vicinity map attached. As part of the access road we will use existing pipeline right-of-way. In order to do so, it will be necessary to roll out water bars. Should the well be non-commercial, the water bars will be restored and the pipeline reseeded. In SE4 of NE4 Sec 5, T24N, R8W an archaeological site exists on a small ridge where a trail now exist. The trail will be used as a portion of the access road to the location. Mrs. Hewett has recommended clearance of this area provided no grading is done. We feel some light grading may be necessary in order to move the rig in. Mrs. Hewett has agreed to be on the site while any grading takes place so that she might observe and record any cultural resorces that may be disturbed. Mrs. Hewett feels that this method would be acceptable.

U.S. Department of Interior Page 2 December 10, 1976

- Points 3, 4, 6, and 9 Vicinity map and drill site platt attached
- Point 5 Water for drilling will be trucked from the Hilltop water hole approximately 20 miles to the north.
- Point 7 A waste disposal pit will be provided for the garbage and trash. Location shown on drill site plat. Drilling fluids will be contained in the reserve pit until such time as evaporation occurs and then the pits will be covered. During dry out time the pit will be fenced to eliminate livestock entry.
- Point 8 No camps or airstrip.
- Point 10 Should the well be a commercial producer, it will be equipped to facilitate producing operations, with all drilling pits filled, location leveled, with reseeding of the area not used for day to day operations. In the event the well is a dry hole, all pits will be filled, location leveled and reseeded. All seeding will be done between Jule 1 and September 15, with equipment specified by the BLM. The seed mixture will be that specified for Area I of the Farmington Resource Area.
- Point 11 Topography of the area is sloping with drainage by sheet wash erosion. Vegetation present includes sagebrush, various grasses, snakeweed, sparse yucca and scattered juniper trees higher on the slope. Grazing is evident and the soil is a brown sandy clay loam.

Point 12

William T. Jones 3 E Company, Inc. P.O. Box 190 Farmington, NM 87401 505-327-4020

Point 13 I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Kirby Exploration Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

December 10, 1976

Date

illiam T. Jones, Agent

U.S. Department of Interior Page 3 December 10, 1976

Should further information be required, please advise.

Yours truly,

Villiam T. Jones

William T. Jones

WTJ:st

Enclosures

# Archaeological Clearance Survey Report

for

Kirby Exploration Company

December 9, 1976

### Location

Alley Federal /1

Prepared by Nancy S. Hewett

Submitted by
Dr. J. Loring Haskell
Operations Director and
Principal Investigator
Agency of Conservation Archaeology

#### Introduction

The Agency of Conservation Archaeology of the Can Juan County Museum Association and Fastern New Mexico University recently completed an archaeological clearance survey on lands near Crow Canyon, New Mexico, to be impacted by the proposed construction of one well pad and one access road by Kirby Exploration Company, Houston, Texas.

The survey project was initiated at the request of Mr. Bill Jones of the Three E Company, Farmington, on December 3, 1976. It was administered by Mr. Jones and Dr. J. Loring Haskell of the Agency of Conservation Archaeology, Portales.

The field work was conducted by Mrs. Nancy Hewett of the Agency of Conservation Archaeology, Farmington, on December 9, 1976 under provisions of Federal Antiquities permit No. 76-NM-023 which expires on March 7, 1977. Representing Kirby Exploration Company in the field was Mr. Jack Cook of the Three Company, Mr. B ob Moore of the B ureau of Land Management, and Mr. M. L. Seelinger and Mr. Ray Swanson of the U. S. Geological Survey.

#### Survey

The requested archaeological clearance survey involved one well pad and one access roa described below and located on lands under the jurisdiction of the Bureau of land Management. For specific details of location, please see the attached topographic map and the recommendations section of this report.

The general survey procedure employed was to walk the area of the proposed construction in a zig zag manner. Visual inspection was made of the ground surface free of snow for evidence of any artifactual remains of historic or prehistoric origin. Floral, faunal and geological observations were made to briefly describe the environmental situation.

## Alley-Federal No. 1

Environment: The terrain of the proposed access road and well pad is sloping with drainage by sheet wash erosion and a few erosional gullies to the north. The principal vegetation is big sagebrush (Artemisia tridentata), various grasses, snakeweed (Gutierrezia sarothrae), sparse yucca (Yucca baccata), and scattered juniper trees (Juniperus sp.) higher on the slope. Grazing is evident in the area, and the soil is a brown sandy clay loam. Because of the snow present, the entire area which were considered likely areas for sites to appear was searched.

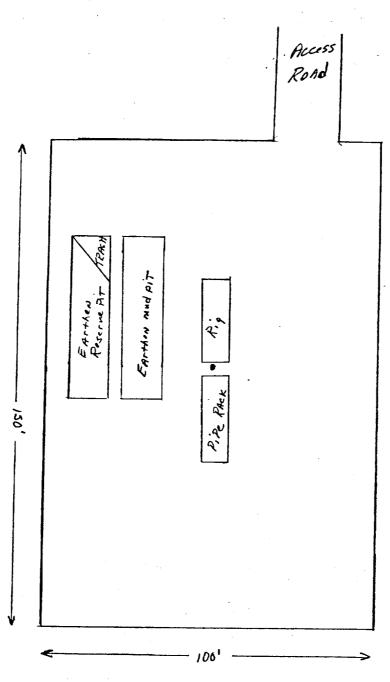
Cultural P. sources: No cultural resources were noted in the areas of proposed construction during the survey. However, upon checking records, ENM 10622 was located in a previous survey done June 27, 1976 for Northwest Pipeline Corp. for H-21 pipeline. The site is located on a small ridge composed of stabilized dunes where a trail now exists. The trail will be used to move equipment to the location.

## Recommendations

Because of the lack of cultural resources on the well pad and 300' access road in from the H-21 pipeline, these areas are recommended for archaeological clearance. The presence of a site in the NE+ of SE+ Sec. 5 T24N R8W which is on a narrow ridgeline trail precludes grading. The site was identified as a camp with no features or architecture noted on the surface. Grading, however, very possibly will disturb any features which may exist beneath the surface. Clearance for this area of the trail is recommended with the qualification that no grading take place.

<u>Well</u>	Area	Location	Clearance Status
<b>#</b> 1	]25' x 125' (pad) [00' x 20' (road)	SWA of NWA Sec. 4 T24N R8W San Juan County, New Mexico. Map Source: 15' USGS Nageezi Quadrangle	Recommended
<b>**</b> '^	•	200M x 150M on ridge of stabilized dunes SE4 of NE4 Sec. 5 T24N R8W NMPM	Recommended with qualification

# Well SITE PLAT



Scale 1"= 30'

KIRBY EXPLORATION COMPANY ALLEY FEDERAL #1 1850' FNL & 790' FWL Sec 4, T24N, R8W San Juan County, New Mexico

