# SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

WILLIAM OF THE HATE

Budget Bureau No. 42-R1425.

30 - 045 - 23657

5. LEASE DESIGNATION AND SERIAL NO.

	14-20-5250											
APPLICATION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME											
ia. TYPE OF WORK DRII	Navajo 7. Unit agreement name											
D. TIPE OF WELL	S OTHER			NGLE	MULTIPL	* 🗆	8. FARM OR LEASE NAME					
2. NAME OF OPERATOR	ELL LA OTHER					<del></del>	East Carson Navajo					
Ludwick E	exploration Comp	oany					9. WELL NO.					
3. ADDRESS OF OPERATOR	10. FIELD AND POOL, OR WILDCAT											
P. O. BOX	2614, Farmingt	on, New Min accordance wit	exico	tate requiremen	nts.*)		Wildcat - PC-					
At surface 790' FSL,	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA											
At proposed prod. zone		23-25N-11W NMPM										
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE	E.			12. COUNTY OR PARISH   13. STATE					
28 miles	from Farmington	ı					San Juan NM					
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L	•		16. NO. OF ACRES IN LEASE 17.				NO. OF ACRES ASSIGNED TO THIS WELL 160					
(Also to nearest drlg 18. DISTANCE FROM PROPE	. unit line, if any)		1			20. ROTA	20. ROTARY OR CABLE TOOLS					
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	RILLING, COMPLETED,		1475"			rota	rotary					
21. ELEVATIONS (Show who	ther DF, RT, GR, etc.)		<u> </u>				22. APPROX. DATE WORK WILL START*					
6502' GL		<u> </u>					June 15, 1978					
23.	P	ROPOSED CASI	NG ANI	CEMENTING	PROGRA	M						
SIZE OF HOLE	SIZE OF HOLE SIZE OF CASING WEIGHT PER				ЕРТН		QUANTITY OF CEMENT					
7-7/8"	5-1/2"	14#		85'			sacks					
4-3/4"	2-7/8"	6.5#	<u>1475</u>			200	sacks					
a 4-3/4" s Low bottor well will b	e to test the Pic limhole to a TI n hole pressure be completed on master casing	of 1475'u is anticipa the basis o	ising ted a of ope stripp	a portabl and a BOP en hole re	e rotan will nesistivity will be	y rig ot be u ty and used o	and mud. used. The					
preventer program, if an 24.  signed Middle	drill or deepen directions		t data	Chemical	Engine	esent produced	luctive zone and proposed new productive d and true vortical depths. Glye blowout  DATE May 19, 1978					
	-						D.4 m =					
APPROVED BYCONDITIONS OF APPROV	/AL, IF ANY:	TI	TLE				DATE					

# 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 houndaries of the Section

Operator		71 U.Stanc	Lec		er boundaries of	the Section	i.		
Ludwick Ex	ploration Com	pany			ST CARSO	Well No.			
Unit Letter	Township 25	North	Rang	е	County		-·· <u> </u>		
Actual Footage Loc	23 cation of Well:	1 20	1101 011	<u> </u>	11 West	L	San Juan		
790	feet from the	South		1850	fee	from the	East	lir	
Ground Level Elev. 6502		mation RED CLIF	Poo	ol	WII DOAG	•		Dedicate	d Acreage:
1. Outline th	ne acreage dedica			hv cal	WILDCAT		morles s= 1	1 1	160 Acres
\c'							•	-	
2. If more th interest ar	nan one lease is nd royalty).	dedicated t	to the well, ou	utline	each and iden	ntify the	ownership the	ereof (l	oth as to working
3. If more that dated by c	an one lease of d communitization, u	ifferent own nitization, f	ership is dedi orce-pooling.	icated etc?	to the well, l	nave the	interests of	all own	ers been consoli-
Yes			es;" type of co		dation1_	- owner	lease	·	
If answer	is "no" list the	nuners and	traat daaaninti		.1.:-1. 1	. 13 1	1+1	1 /77	
this form i	is "no," list the of necessary.)	and	uaci descripti	ions w	vnien nave ac	Lually be	en consolidat	ied. (Us	se reverse side of
No allowat	ole will be assigne	ed to the wel	ll until all inte	erests	have been c	onsolidat	ed (by comm	unitiza	tion, unitization,
forced-pool sion.	ling, or otherwise)	or until a no	on-standard un	it, eli	iminating sucl	interest	s, has been a	approve	d by the Commis-
	1					<del></del>			
	i			!				CERTIF	ICATION
	!			! 			I hereby ce	rtify tha	the information con-
				i			1		and complete to the
	İ			t 1			1		e and belief.
	1	ļ		ا ملہ	A CONTRACTOR OF THE PARTY OF TH			edo	Liknes Kuch
	+	+		ا 🖳 کے			Mildred	Likne	s Kuchera
	1			· 1			Position		
	İ			1	•		Company	l Eng	ineer
	į L		1 2	1			1	Expl	oration Co.
							Date		
		SEC. 2	23	1			<u>May 15</u>		Illigy.
	1				The second second		11111	AL F	ISEN/A
	1			J			I hereby (c	ertify th	it the well location
	į				LOTTED			÷.	as plotted from field teys made by the or
	j i		14 - 20	- 523	50		1		n, and that the same
		11		!			is true and	correct and belie	to the best of my
<u> </u>	+			-+			3974	OWA.	CAMMINIAN IN TO SERVICE STATE OF THE SERVICE S
	l			i				**************************************	(A) liv.
	. 1		<b>O</b>		/850'		Date Surveyed		<b>7</b> 0
	i		Ĭ			1	Registered Pro	3, 19	
	i		790'	i			and/or Land S		
·	<b>[</b>			ļ		4	و و د ارجم	A 1	
							Certificate No	597	isantagua 9
0 330 660 9	0 1320 1550 1980	2310 2640	2000	1500	1000 500	,	B.		nhoover, L.S.

#### LUDWICK EXPLORATION COMPANY

## P. O. Box 2614 FARMINGTON, NEW MEXICO 87401

May 23, 1978

Mr. P.T. McGrath
District Engineer
U.S. Geological Survey
P.O. Box 959
Farmington, New Mexico 87401

Subject:

Surface Use Development Plan

East Carson Navajo No. 1 Wildcat Pictured Cliffs Test

SE/4 of Section 23, T25N, R11W San Juan County, New Mexico

Dear Mr. McGrath:

The subject development plan for the proposed Ludwick Exploration Company East Carson Navajo No. 1 is as follows:

- 1. Per the attached plat, there is an existing road leading to this well.
- 2. No new access roads will be necessary.
- 3. A map is attached showing offset existing wells.
- 4. Location of tank batteries and production facilities are shown on the attached plat. The well is located in East Bisti Unit with extensive surrounding production facilities.
- 5. Water for drilling and completion work will be hauled in from Bloomfield.
- 6. Materials necessary for the construction of a drilling pad will be obtained from the location.
- 7. Waste materials will be collected in the unlined earthen drilling mud pit. These materials will be buried upon completion of the well.
- 8. No permanent campsites or airstrips are anticipated.
- 9. Refer to the attached Well Site Layout plat. No major earth cuts are anticipated.

- 10. The proposed wellsite is located in a sandy, sparsely vegetated desert type area. There are no Indian habitations or artifacts in the immediate vicinity.
- ll. Please refer to the Archeological Report to be submitted to your office.
- 12. Ludwick Exploration Company's representative is -James Ludwick Telephone-505 325-1079; or Mildred L. Kuchera Telephone-505 325-3448.
- 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 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 Ludwick Exploration Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

May 23, 1978

Mildred L. Kuchera Chemical Engineer

#### SUPPLEMENT TO FORM 9-331C

WELL: East Carson Navajo No. 1

SURFACE FORMATION OF DRILL SITE:

Animas Sandstone

ESTIMATED FORMATION TOPS:

Ojo Alamo:

420'

Fruitland Coal

1310'

Pictured Cliffs

1350'

WATER AND HYDROCARBON BEARING FORMATIONS:

Fresh Water

34'-550'

Gas

1330'-1430'

#### MUD PROGRAM:

Surface-85'-Water, 85'-1475'- Gel-Chemical Mud, 15cc water loss or less, 8.7#/gallon to 9.2#/gallon mud weight. Bottom hole pressure gradient in this area is about 0.148 psi/ft or 2.84#/gallon. We do not foresee any drilling hazards based on extensive offset drilling data.

## CASING AND CEMENT PROGRAM:

New 5-1/2" 15.5# K-55 and 2-7/8" 6.5# K-55 casing will be used and pressure tested to 500 psi for 30 minutes prior drilling out and perforating. Regular cement will be used to cement surface casing. A light 50-50 Pozmix cement slurry followed by a neat cement w/2% CaCl will be used for production casing.

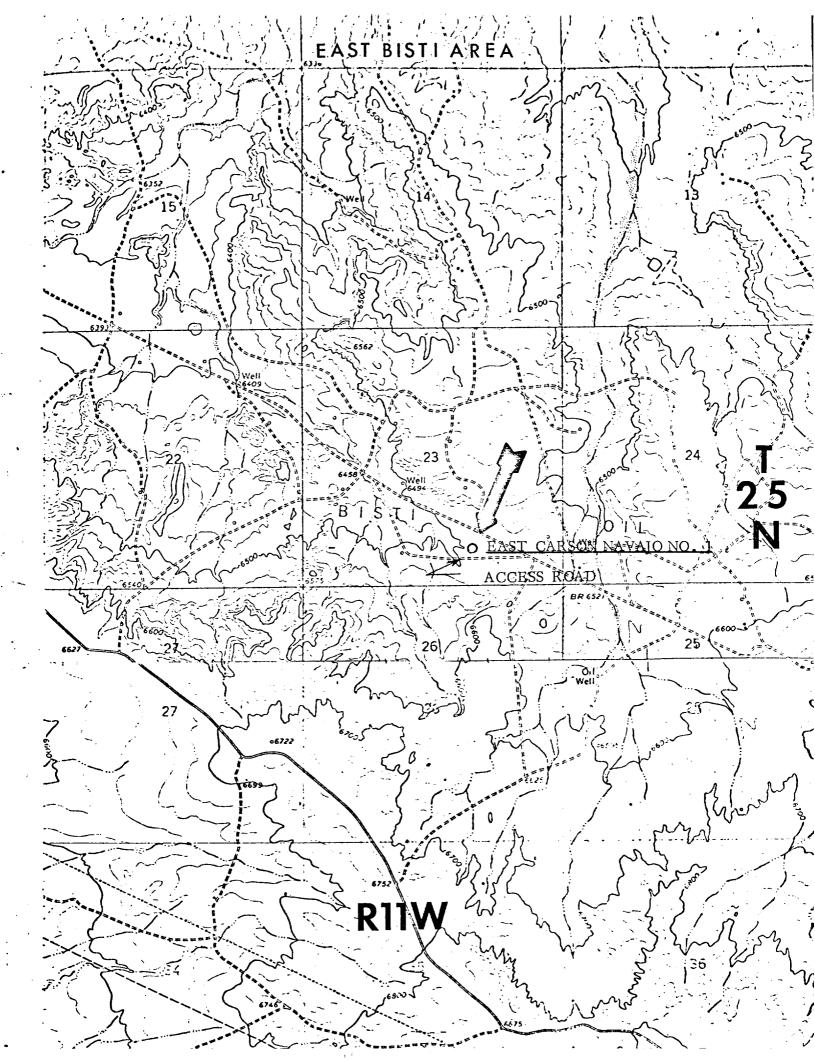
#### LOGGING PROGRAM:

CNL-FDC - TD to surface

ES - TD to surface

#### PRESSURE CONTROLS:

Because of low bottom hole pressure, a BOP stack will not be used while drilling. A stripper head and master casing valve will be utilized for well control.



•		<u>н</u>	Corsen	3 <b>♦</b> ≈	Shell	,408.16J	8006 • 206 • 206 • 206	2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0000000	18007	# 0 0 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	one:			ි. ග	
WELL STATUS		. 32		29		Carson	\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I SNOT	00 x	200-	Maynolia Shelly	.W.\./.'9e 2	8	Shell Shell	. Lohoes	Ул	*/*
JS AND PRODUCTION		<b>8</b>	G Fayric	And Pre 28		EBU	027 21	Skally (129	4 5005) X	16 minde	5 6 6	202	9Tennaco	She	Gallegus Gaugar Fed	4. 6A-40	1
ION FACILITY PLAT	R	3 4	Hoteld o"	Navajo 2 Tianness	Sears 1.27 Shockely	143 0 50 00 00 00 00 00 00 00 00 00 00 00 0	18 0 033 056	1-nng-20 5kg   14 00	100 ST	Skelly 15Tekas Co	Manugh 31.50	Of Won	HUN NEPANO		Pan 0	}	0-
	R ¥	3 <del>1</del> 55	Delo E.BU	12 0 Jz	1 51 m	030 0000	2 3 25	3 4 5 5 6 11 y	So of Annager	Canyon Texas Co 14Benson Montin	मुन्द्रम् विकागहर्वे	☆ 6 Canyon	== ×.	โซกกั๔๔๐	( * conco	2Erinsky: Tenneco	*
LUDWICK EXPLORATION C	·	ය ග	E811	25 25 33	052 32 (connecco	ار جرگ جرگ	6 24 € X	5 Skel	\$° T		Tenneco ☆ '8	_	- N	Union Oil of Calif	N	Makee (canyon Union oil of cast	\$\$ • • • • • • • • • • • • • • • • • • •
ION COMPANY		58 Skelly 56 0	135/025 WWW.J.U	30 029 8 024 30 0037	15 0 5 - 0 35 0 7		Tannaco Mount View	Are or of Calif	Nove	<b>8</b>	Onion of of calls	Griastil Fed		Universal Res.	₩ Hanson	ത	· · · · · · · · · · · · · · · · · · ·
	020 (A)	019 (222) 53.5 32 2	120 m	©3. 29 29 1017	Odessa Nat		20		Feole, w/	17	Union Oiles Calif	Grosti Fit	ω	Universal Res	rsonson	(J)	- 4 2 X

,

EAST CARSON NAVAJO NO. 1

# LUDWICK EXPLORATION COMPANY DRILL SITE LAYOUT & CROSS SECTION EAST CARSON NAVAJO NO. 1

