

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Conservation Division
P. 0. Box 26124
Albuquerque, New Mexico 87125

APR 14 1978

Halter W. Krug Hallen Production Company P. O. Bex 1960 Hidland, Texas 79701

Dear Mr. Krug:

Your Application for Permit to Drill well No. 3 Bass in the SEGSE's sec. 21, I. 20/S., R. 34 E., Lea County, New Mexico, lease New Mexico 073240, to a depth of 3650 feet to test the Yates and Seven Rivers formation in the Oil Petash area is hereby approved, as amended by stipulations attached to the application.

One copy of the application is returned herewith. Please motify the District Engineer, Geological Survey, Hobbs, New Mexico, in sufficient time for a representative to witness all cementing enerations.

Sincerely yours,

(ORIG. SED.) GENE F. DANIEL

Acting Area Oil and Gas Supervisor

Enclosure

cc: Conservation Manager, Denter
Area Hining Supervisor, Albuquerque (2)
NHOCC. Hobbs (2) (w/2 capies Notice)
Roswell Area Office (2)

Nebbs District Office

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SUBMIT IN TRIPLICATE*

(Other instruction reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNI D STATES -DEPARTMENT OF THE INTERIOR.

	DEPARTMENT		_		I LEASE DESIGNATION AND SPRIAL NO.
		GICAL SURV			<u>XM 070315</u>
APPLICATION	N FOR PERMIT T	O DRILL, I	DEEPEN, OR	PLUG BA	4CK 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK					The same was to the same with
DRI b. type of well		DEEPEN (∐ PI	LUG BACK	7. UNIT AGREEMENT NAME
OIL ETT G.	AS		SINGLE X	MULTIPLE	8. FARM OR LEASE NAME
2. NAME OF OPERATOR	YELL OTHER		ZONE LA	ZONE	Wallen Federal Dun
Walter W. K	rug DBA Walle	en Produc	tion Compa	nv	9. WELL NO.
3. ALDRESS OF OPERATOR	148 221 1142	110000	<u> </u>		12 3
P.O. Box	1960, Midland	l.Texas	79702	00-1-	10. FIELD AND POOL, OR WILDCAT
			th any State requiren	nents.*)	Middle Lynch Yates 7-
6	60' FSL & 330)' FEL	-	9 5	Middle Lynch Yates, 7- 11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA Rivers
At proposed prod. zon			1	1 19	78 Rivers
	Same as Ab	ove	U.S.G.	())	Sec 21, T20S, R34E
	AND DIRECTION FROM NEAR	_	HOEF	35, NEW M	EVICO
28 miles WNW	from Eunice	New Mexi	CO		
LOCATION TO NEAREST PROPERTY OR LEASE I	r	101		N LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
(Also to nearest drig 18. DISTANCE FROM PROP	g. unit line, if any) 32	30'	640		40 20. ROTARY OR CABLE TOOLS
TO NEAREST WELL, D	RILLING, COMPLETED.	900'	3650'	1	Cable Tool
21. ELEVATIONS (Show who		700	1 3030		22. APPROX. DATE WORK WILL START*
,,,,,	GR 3671				8/15/78
23.	P	ROPOSED CASIN	NG AND CEMENTIN	G PROGRAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	OOT SETTING	DEPTH	QUANTITY OF CEMENT
15월"	13 3/8	72#	225		300 SXs Class "C" CILLIAN
12날"	10 3/4 "	48#	750		Mudded in
10"	8 5/8	32#	1200		Mudded in
8''	7''	23#	3300	1	1000 Sxs Class "C" w/CIRCULAT
_	•	.,,			2% Gel & ¼# flocele/Sx.
Liner 6½"	4½"'	10₺#	3650		50 Sxs Class "C" w/½#
			"APPROVAL		flocele/Sx.
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		CON	DITIONS OF	APPROV	· [[[[1] [1
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11.00		
signed Hatter Time	Engineer	DATE 3/10/78
(This space for Federal or State office use)		
ERMIT NO.	APPROVAL DATE	
APPROVED BY	TITLE	DATE

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive

Fig. 18413

3744619.3

1.11-1715/8

OIL CO. LEDGE II. M. M.

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section

Onit Letter 11P11 Actual Footage Loca 660 Ground Level Elev. 3671 1. Outline the interest an 3. If more than	Producing For YATES &	Township 30 S	ad 33	Range -34-E	County LEA	12 3
Actual Footage Loca 660 Ground Level Elev. 3671 1. Outline the interest an 3. If more than	21 dion of Well: feet from the Producing For YATES 8 e acreage dedicates	SOUTH line on	ad 33	-34-E	1	
660 Ground Level Elev. 3671 1. Outline the interest an 3. If more than	Producing For YATES &	rmation	Pool	0		
3671 1. Outline the interest an 3. If more than	Producing For YATES &	rmation	Pool		from the EAST	
Outline the If more the interest an If more than	e acreage dedica	SEVEN RIVERS		MIDDLE LY	NCH -	line Dedicated Acreage;
2. If more the interest and3. If more than			YA"	TES SEVEN R	IVERS	40 Acres
interest an				-	r hachure marks on the	•
	an one lease is id royalty).	dedicated to the w	ell, out	tline each and ide	ntify the ownership the	ereof (both as to working
dated by c		lifferent ownership i unitization, force-poo			have the interests of	all owners been consoli-
Yes	☐ No If a	nswer is "yes;" type	of con	solidation		
If answer i	s ''no,'' list the	owners and tract de	scriptic	ons which have ac	tually been consolidat	ted. (Use reverse side of
No allowab forced-pool	le will be assign ing, or otherwise	ed to the well until a) or until a non-stand	all i nte ard uni	rests have been c	onsolidated (by comm h interests, has been a	nunitization, unitization, approved by the Commis-
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	1			1		d correct to the best of my
	l			i	knowledge	and belief.
	· - + -			WALLEN	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	1			PROD. C	3301	
	l i			FEDERAL" #12.	MARCH	7, 1978
	•				and/xer Land S	
	l l		المراجع	40 ACRES	ZALAGO	CHUMANN JR
				,	Certificate No	
330 660 9	0 1320 1650 198	10 2310 2640 204	00 1	800 1000 5 0	o o l	1510

- 1. Geologic name of the surface where the Federal ##2 is located is the Quarternary (Alluvium and sand).
- 2. The estimated tops of the geologic markers are:

A. Rustler (Anhydrite)	=	1350'
B. Top Salt	==	1473'
C. Base of Salt	=	3155'
D. Lime	=	3182
E. Yates	=	3450'
F. Reef (Seven Rivers)	=	3675 '
•		
3. a. Surface Water	=	195'
b. Santa Rosa Water	==	835 t

4. Control equipment is a 1500# W.P. control head with double oil saver (if needed) (this will be a cabletool rig).

= 3450'

= 3675'

5. Drilling fluid is fresh water.

d. Seven River Reef Oil

c. Yates Sand Oil

- 6. Logging program will be Gamma Ray-Neutron with CCL.
- 7. Estimated drilling duration is 60 days.

Walter W. Krug DBA Wallen Production Company

DEVELOPMENT PLAN FOR SURFACE USE

Wallen Federal #13 Well 660' FSL and 330 FEL Section 20, T 20 S, R 34 E, Lea County, New Mexico

The following discussion answers the items 1 through 12, concerning the above subject well.

1. AERIAL MAP

Plat # 1 is a portion of a USGS topographic map, Lea County, New Mexico, showing existing roads. The location is approximately 26½ miles from Hobbs. The location is along the county road.

2. LOCATION OF EXISTING WELLS

Plat # 2 shows all of the wells and dry holes within a one (1) mile radius of the proposed location.

3. PROPOSED WELL LOCATION

Plat # 3 shows the rig location with North orientation marker.

- a. Mat size is 140' x 180'.
- b. Surfaced with 8" of compacted, watered and leveled caliche from BLM quarry.
 - c. Pit is 40' x 60' x 8' deep.
 - d. Cut and fill isn't necessary, here the location is nearly level and only requires caliche.
 - e. Entrance road is 380' long and comes off of the county maintained road.
 - f. SETTING AND ENVIRONMENT
 - 1. Terrain is gently rolling sand (see Plat # 1).
 - 2. Soil is a very sandy clay.
 - 3. Vegetation is scrub oak, mesquite, gramma grass, spanish dagger, general desert weeds and sand burrs.
 - 4. Surface use is for grazing.
 - 5. Other the area is nearly flat semiarid desert country and is probably considered a low environmental risk area, There should be very little (if any) environmental effect of drilling and producing in this vicinity.

g. Distances to

- 1. Ponds and streams there are none within 6 miles.
- 2. Water wells none within one mile.
- 3. Residences and buildings none within 6 miles.
- 4. Arroyos, Canyons, etc none within 1½ miles.
- h. Well sign there will be a well sign at the entrance of the road.

4. ROADS

Plat # 1 shows all roads within 3 miles or more. Planned entrance is staked and road will be 80' long and 15' wide and will be caliched with 8" mat note Plat # 3. There are no fences, gates or cattle guard.

5. TANK BATTERY

Plat # 4 shows the existing Fee tank battery in NW/4 of NW/4, Section 21, T 20 S, R 34 E.

6. LEASE PIPELINES

Plat # 4 shows all existing oil pipelines and salt water line and disposal well. This plat also shows the proposed oil flow line from this well if oil is established.

7. WASTE DISPOSAL

Well cuttings will be disposed of in slush pit. Barrel trash containers are on location and contents will be burned or buried with a minimum of 23" of dirt cover. Produced water will be disposed of by injecting in our own salt water disposal well.

8. WATER SUPPLY

Our water is hauled by commercial haulers.

9. ARCHAEOLOGICAL RESOURCES

None in the surrounding area.

10. RESTORATION OF SURFACE

Should the well be productive the pit will be back filled as soon as practical.

11. OPERATORS REPRESENTATIVE

Walter W. Krug

P. O. Box 1960

Midland, Texas 79701

office phone

ac 915- 683-2600 ac 915- 683-6526

phone home

ac 915- 563-0048

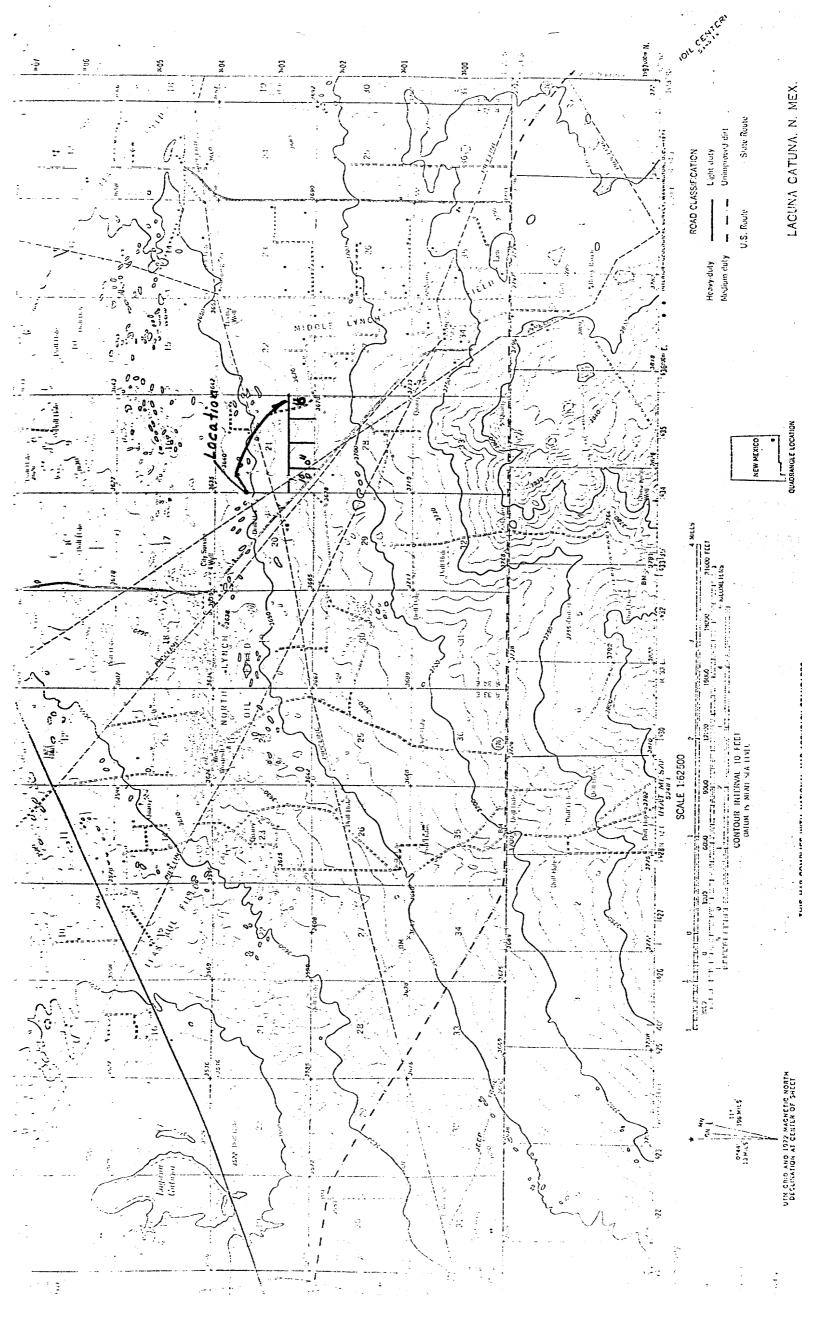
12. CERTIFICATION

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions as they exist. The statements made in this plan are, to the best of my knowledge, true and correct and that the proposed work performed by Wallen Production Company its contractors and sub-contractors will conform to this plan.

March 13, 1978

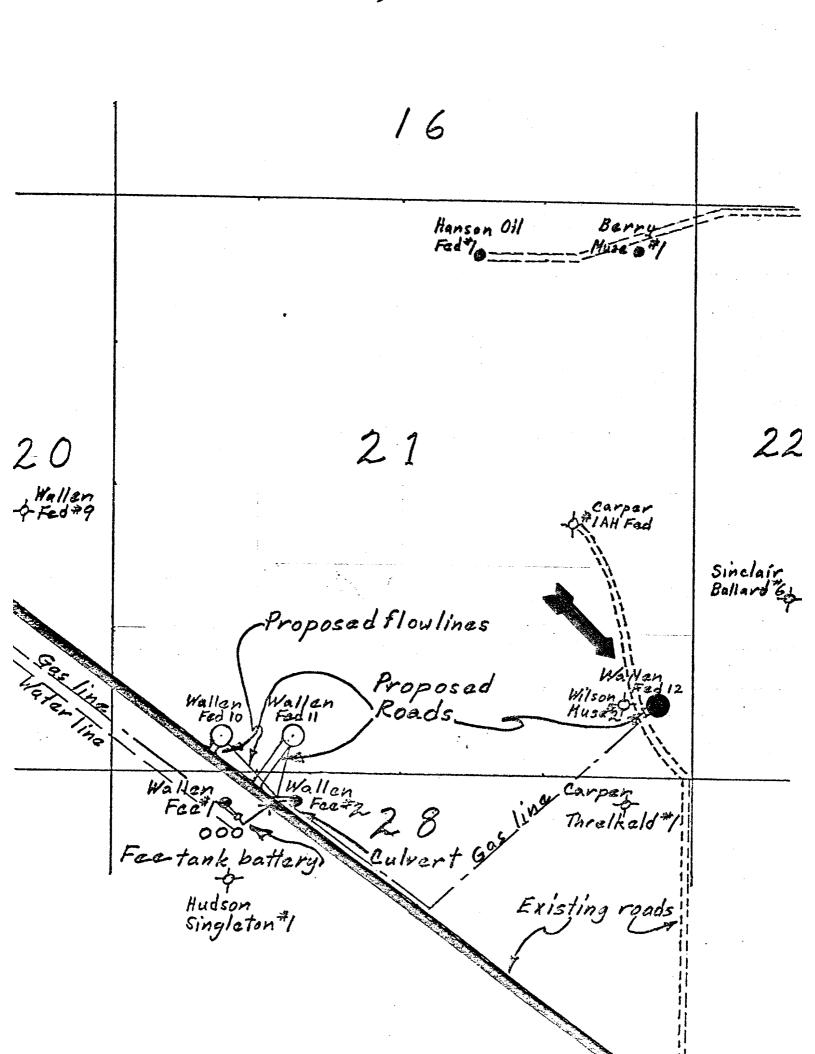
Walter W. Krug

Engineer and authorized agent



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WALLEN PRODUCTION CO.- FED #12 E/2, SE/4, SE/4, Sec. 20, T205, R34E LEA COUNTY, NEW MEXICO



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AGREEMENT

Noranda Exploration, Inc have no objection to Walter W. Krug, DBA Wallen Production Co's casing program on a well located in 660 FSL and 330 FEL of Section 21, Block 20, T 34 E, Lea County, New Mexico (said well to be 3600 feet plus or minus) using the USGS approved requirements and that Wallen Production Co. will furnish Noranda Exploration, Inc an electric log, gamma ray and neutron run at as low a speed as possible through the salt section, and that Wallen Production Co. will build its brine with KCl through the interval of the 10th ore zone and allow Noranda Exploration Inc's man to study the drill cuttings through that section, if so requested by Noranda.

This is as per the conversation and agreement with James Brewer, Geologist, Noranda Exploration, Inc.

DATED this --- 28--- day of March 1978

NORANDA EXPLORATION, INC

Walter W. Krug, dba Wallen Production Co., does hereby agree by the terms of this consent as outlined above.

> WALTER W. KRUG, dba WALLEN PRODUCTION CO.

U. S. Geological Survey

HOBBS DISTRICT

Wallen Production Co.
No. 3 Bass
SE¼SE¼ sec. 21-20S-34E
Lea County, N. M.
Above Data Required on Well Sign

CONDITIONS OF APPROVAL

- 1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.
- 2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.
- Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
- 4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plugback work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.
- 5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
- 6. Operator will provide the dirt contractor with a copy of the enclosed Bureau of Land Management "Standard Requirements for all Drilling in Relation to Oil and Gas Activities in the Roswell Distrct" prior to commencing construction of road, pad, or other associated developments.
- 7. In the event the oil or gas test results in a dry hole, the drill pad and access road will be ripped in accordance with "BLM Roswell District's Ripping Recommendations for Caliche or Compacted Drill Pads and Access Roads". (Reseeding of the affected areas may be required at the discretion of the BLM authorized officer).
- 8. All ripped surfaces are to be protected from vehicular travel by constructing a dead-end ditch and earthen barricade at the entrance to these ripped areas. The barricade is to be constructed using spoil material from the ditch and should be of sufficient magnitude to discourage vehicle entry.
- 9. All above ground structures, not subject to applicable conservation and safety requirements, shall be painted to blend with the natural surroundings. The paint used should be a nonglare, nonreflective, flat, or semi-gloss that simulates fed. Stand. No. 595, color 30318.
- 10. A Gamma Ray-Sonic log is required from the base of the Salado formation to the surface in open hole at a logging speed not to exceed 30 feet per minute.

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7.5 R 1 7 1978

OIL CONSESSATION COMM.