

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Conservation Division P. O. Box 26124 Albuquerque, New Dexico 07125

JUN 0 1 1978

Walter H. Krug Wallen Production Company P. O. Box 1960 Widland, Texas 79701

Dear Hr. Krug:

Your Application for Permit to Drill well No. 2 Bass in the SELSWA sec. 21, T. 20 S., R. 34 E., Lea County, New Mexico, lease LC 070315, to a depth of 3650 feet to test the Yates and Seven Rivers formation in the Oil Potash area is hereby approved, as amended by stipulations attached to the application.

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

Sincerely yours,

(ORIG. SGD.) JAMED W. SUTHERLAND

AREA ON AND CHE FOR FURSOR, SRMA

Enclosure

cc: Conservation Manager, Denver Area Mining Supervisor, Albuquerque (2) NMOCC, Hobbs (2) (w/2 copies Notice) ~ Roswell Area Office (2) Hobbs District Office



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Walter W. Krug Wallen Production Company P. O. Box 1960 Hidland, Texas 79701

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Your Application for Permit to Drill well No. 2 Bass in the SE&SWA sec. 21, T. 20 S., R. 34 E., Lee County, New Mexico, lease LC 070315, to a depth of 3650 feet to test the Yates and Seven Rivers formation in the Oil Potash area is hereby approved, as amended by stipulations attached to the application.

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(ORIG. SGD.) JAMES W. SUTHERLAND

AREA OIL / D. C.D. STOTE THUR, SRMA

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Form 9-331 C (May 1963)	UNI	STATE	(Oth	UT IN TRIPLICATE per instruction reverse side)	E* Form approved. Budget Bureau No. 42-R142;
	DEPARTMEN				
-		GICAL SURV			5. LEASE DESIGNATION AND BERIAL NO.
					NH 070315
	N FOR PERMIT	O DRILL,	DEEPEN, OR P	LUG BACK	6. IF INDIAN, ALLOTTEE OB TRIBE NAME
1a. TYPE OF WORK		DEEPEN		JG BACK 🗌	7. UNIT AGREEMENT NAME
b. TYPE OF WELL		DELL LIN			
OIL GA	ELL OTHER		SINGLE ZONE	ZONE	8. FABM OR LEASE NAME FEGET
2. NAME OF OPERATOR					Wallen
Walter W. I	Krug DBA Wall	<u>en Produ</u>	ction Compar	<u>іу</u>	9. WELL NO.
					10. FIELD AND POOL, OR WILDCAT
Box 1960, 4. LOCATION OF WELL (R	Port location clearly and	In accordance w	ith any State requirement	1ts.*)	INDESIGNA
At surface	FWL & 330 F		5 - .		Middel Lynch Yates, 11. SEC., T., B., M., OK BLE. Diver
At proposed prod. zon	-				AND SURVEY OF AREA. River
Same	as above		<u> </u>	· · · · · · · · · · · · · · · · · · ·	Sec 21. T20S. R34E
14. DISTANCE IN MILES A			1000 (California)	i internet	12. COUNTY OR PARISH 13. STATE
28 miles W	NW from Eunio	<u>ce,New Me</u>	XICO 16. NO. OF ACRES IN	TP400 1 17	Lea New Mexi
LOCATION TO NEABEST PROPERTY OF LEASE L	INE. FT.		10. NO. OF ACKES IN .		OF ACRES ASSIGNED HIS WELL
(Also to nearest drig 18. DISTANCE FROM PROPO	unit line, if any) 33	0	640 19. PROPOSED DEPTH		40
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	ILLING, COMPLETED,	01	36.50		
21. ELEVATIONS (Show whe		0	10_0		DIE TOOL 22. APPROX. DATE WORK WILL START*
	GR 3	675		<i>i</i> .	6/15/78
23.			NG AND CEMENTING	PROGRAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	FOOT SETTING DE	SPTH .	QUANTITY OF CEMENT
1.55"	13 3/8	72.#	225	300	Sxs Class "C" BRELAT
125"	10 3/4"	48#	750		Idded in
10	8 5/8"	32#	1200		dded in
8 1	7 ¹⁴	23#	3300		Sxs Class "C" w/
Liner 6 ½"	43"	101.14	2650		1 & ½# flocele/Sx.CM
Liner o z	42	10날#	3650		xs Class "C" w/≿# cele/Sx.
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					luctive zone and proposed new productive d and true vertical depths. Give blowout
preventer program, if any	_			and and alcourt	
	0,00			· .	
BIGNED Hall	a N. CKM	TI TI	Engineer		<u></u>
(This space for Feder	al or State office use	Z			
PERMIT NO.			APPBOVAL DATE	J	
APPROVED BY		11 1		đ	
		T(# + +	VAIN <u></u>
CONDITIONS OF APPROVA	L, IF ANY :		// /	" MAY ZA	10
	L, IF ANY :		UL.	MAY 30	1978

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*See	Instructions	Ол	Reverse 510 UERQUE	, NEW	MEXICO
					·· • • • •

NEL CO OIL CONSERVATION COMMISSIO.

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

		All distances must be from	the outer boundaries o	f the Section.	
	EN PRODUCT	ION CO.	FEDER/	AL Bass	well No# 2
Unit Letter ¹¹ N ¹¹	Section 21	Township 20 	Range -34-E	County	
Actual Footage Loc					·····
330		DUTH line and	1650 fe	et from the WEST	line
Ground Level Elev. 3675	Producing For YATES &	SEVEN RIVERS	MIDDLE LY YATES SEVEN		Dedicated Acreage: 40 Acres
		ted to the subject well	-		
interest as 3. If more that	id royalty). in one lease of d	ifferent ownership is dec	licated to the well,	-	ereof (both as to working all owners been consoli-
dated by c		nitization, force-pooling swer is "yes," type of c			
this form if No allowab	f necessary.) le will be assigned	ed to the well until all in	terests have been	consolidated (by comm	unitization, unitization, approved by the Commis-
\$100.			I		CERTIFICATION
	ł				
	1		1	l hereby ce	rtify that the information con-
			1		in is true and complete to the
			1	best of my	knowledge and belief.
	· •				
	1		1	Name	0/1/
				Hote	King .
Į	4		1	Position	
	1			ing	men -
	1				P. C.
	i		l I	Date	any nor -
	1		1	3/14	1/78
	1				
	1		Ì		ertify that the well location
			1		his plat was plotted from field
	1		1		ctual surveys made by me or
	i i		1		upervision, and that the same
	1		I	knowledge	d correct to the best of my and belief.
	· +	+			
1	WALLE	N			
	I PROD. C	0.	ł	Date Surveyed	ى ، ، ، ، ، ، ، ، ، ، ، ، ، ،
	FEDERAL	_'''	l	MARC	-1 7, 1978
T	#		l		ofessioner Englaser
1650'	<u> </u>		1	and/ser Land S	A Channel A
1		ACRES	. [Leller	HUMANN JR
				Certificate No	
330 660	0 1220 1650 1980	2310 2640 2000	1500 1000		510

1. Geologic name of the surface where the Federal ## 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	==	3 155'
	D. Lime	=	3 182 '
	E. Yates	=	3 450'
	F. Reef (Seven Rivers)	=	3 675 '
	:		
3.	a. Surface Water	=	195'
	b. Santa Rosa Water	=	835'
	c. Yates Sand Oil	=	3 450 '
	d. Seven River Reef Oil	=	3 675'
	. 1		

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

5. Drilling fluid is fresh water.

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 Tederal #11 Well 1650' FWL and 330 FSL 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
- 3. PROPOSED WELL

LOCATION

;

- Plat # 2 shows all of the wells and dry holes within a one (1) mile radius of the proposed location.
- Plat # 3 shows the rig location with North orientation marker.

a. <u>Mat</u> size is 140' x 180'.

- b. Surfaced with 8" of compacted, watered ānd Iēvēled 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.

Tg. 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 l_2^1 miles.
- h. Well sign there will be a well sign at the entrance of the road.
- i. Open Pit will be guarded while drilling, fenced while we are completing the well and then closed in.

4. ROADS

5. TANK BATTERY

6. LEASE PIPELINES

Plat # 1 shows all roads within 3 miles or more. <u>Planned entrance is staked</u> and road will be **5**80' long and 15' wide and will be caliched with 8" mat note Plat # 3. There are no fences, gates or cattle guard.

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

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.





WALLEN PRODUCTION CO. - FED#11 SW/4, SE/4, SW/4, Sec. 20, T205, R34E LEA COUNTY, NEW MEXICO

16 Hanson Oil Fad 1 Berry Muse #1 22 21 20 , Hallen 7 Fed#9 PROPOSED LOCATION Carpar IAH Fed Sinclair Ballard Gy Proposed flowlines to las ling Proposad Roads_ (izz) Wallen -- ic Wilson lallan Fadu Hust Wallen Fre=228 Culvert Gasling Carpan Threlkeld */ Faà Fee tank battery Existing roads Hudson Singleton#1



AGREEMENT

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Noranda Exploration, Inc have no objection to Walter W. Krug, DBA Wallen Production Co's casing program on a well located in 1650 FWL and 330 FSL 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

n Brie Stre

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.

By Halter

HOBBS DISTRICT

Walter W. Krug dba Wallen Prod. Co. No. 2 Bass SE¼SW¼ Lea County, New Mexico

Above Data Required on Well Sign

CONDITIONS OF APPROVAL

- 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.
- 3. 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, plug-back 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).

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.

- 8. 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.
- 9. 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.

Form 9-331 C (M*y 1963)		UNI' STATI	(0)	MIT IN TRIPLICAT ther instruction reverse side)	E• Form approved. Budget Bureau No. 42-R1425.
	DEPART	MENT OF THE			5. LEASE DESIGNATION AND SEBIAL NO.
	C	GEOLOGICAL SUR	VEY		070315
APPLICATI	ON FOR PER	MIT TO DRILL,	DEEPEN, OR F	PLUG BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORKb. TYPE OF WELL	DRILL 🖾	DEEPEN	D PL	.UG BACK 🗌	7. UNIT AGREEMENT NAME
	GAS		SINGLE	MULTIPLE	8. FARM OR LEASE NAME
WELL X		THER	ZONE X	ZONE	
Walter W 3. Address of Operation	Krug DBA	Wal <u>len Prod</u> u	<u>iction Compa</u>	iny	9. WELL NO.
Box 196 4. LOCATION OF WELL	0.Midland,	Texas 79702 arly and in accordance w	vith any State requirem	ents.*)	10. FIELD AND POOL, OB WILDCAT
At surface	50 FWL & 3		•		Middel Lynch Yates, 7- 11. SEC., T., B., M., OR BLK. Pivona
At proposed prod.		50 F5L			II. SEC., T., B., M., OR BLK. AND SURVEY OR ABEA RIVERS UNDESIGNATED
14. DISTANCE IN MIL	e as above	ROM NEAREST TOWN OR PO	ST OFFICE	· · · · · · · · · · · · · · · · · · ·	Sec 21, T2OS, R34E 12. COUNTY OF PARISH 13. STATE
		Eunice,New M			
15. DISTANCE FROM PLOCATION TO NEA	ROPOSED*	Latite, New Th	16. NO. OF ACRES IN		Lea New Mexico OF ACRES ASSIGNED THIS WELL
	drig. unit line, if an	y) 330'	640		40
18. DISTANCE FROM H TO NEAREST WEL	L, DRILLING, COMPLET		19. FROPOSED DEPTH	20. ROT.	ARY OR CABLE TOOLS
OR APPLIED FOR, ON 21. ELEVATIONS (Show		_ 4400 '	3650'	l Cá	22. APPROX. DATE WORK WILL START [®]
		R 3675			6 /1 5 /70
23.	C		ING AND CEMENTIN	G PROGRAM	1 0/15/78
SIZE OF HOLE	SIZE OF CAS	ING WEIGHT PER	FOOT SETTING	DEPTH	QUANTITY OF CEMENT
15½"	13_3/	872#	225		Sxs Class "C" EIEULATE
<u>12½"</u>		<u> </u>	750	Mt	ıdded in
10"	8 5/8	'' 32#	1200	Mu	ndded in
8''	7"	23#	3300	1000	Sxs Class "C" w/
		2.44		2% Ge	1 & 1 flocele/SxEncular
Liner 6	¹ / ₄ ¹ / ₂ ¹	10号钟	3650	' 50 S	Sxs Class "C" w/z#
				IIC	ocele/Sx.
			Ϊ.		
		· · ·			
			SEE AIS		(N)
			CONDITIONS	UP APPRUS	(/1 L
	to drill or deepen d				ductive zone and proposed new productive ed and true vertical depths. Give blowout
	Hen H.	Rang .	Engineer		3/10/78
				- Pa.	

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY __

t

CONDITIONS OF APPROVAL, IF ANY :

U.S. GEOLOGICAL SURVEY. ALBUQUERQUE, NEW MEARCO *See Instructions On Reverse Side

TITLE

APPROVAL DATE

MAY 3

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È,

1978 DATE

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WELL LUCATION AND ACREAGE DEDICATION PLAN

All distances must be from the outer boundaries of the Section Operator Lease Well No. and WALLEN PRODUCTION CO. 1+ 2 FEDERAL Township 20 Unit Letter Section Ranae County "N" 21 **₿**-S -34-E LEA Actual Footage Location of Well: SOUTH 330 1650 feet from the WEST feet from the line and line Ground Level Elev. Producing Formation Pool MIDDLE LYNCH UNDESIGNATED Dedicated Acreage: 3675 YATES & SEVEN RIVERS YATES SEVEN RIVERS 40 Acres 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? Yes No No If answer is "yes," type of consolidation _ 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. 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. /WALLEN PROD. CO. Date Surveyed MARCH 7, 1978 "FEDERAL" Registered Professional Englace 1650 #П. and/or Land Surveyor C 3301 40-ACRES MAX A SCHUMANN Certificate No. 1510 330 660 .90 1320 1650 1980 2310 2640 2000 1800 1000 500

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

- Ceologic name of the surface where the Edderal ## 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	=	3 155'
		D. Lime	=	3 182 '
		E. Yates	=	3 450'
		F. Reef (Seven Rivers)	=	3 675 '
		:		
3.	a.	Surface Water	=	195'
	ь.	Santa Rosa Water	=	835'
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- 4. Control equipment is a 1500# W.P. control head with double oil saver (if needed) (this will be a cabletool rig).
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Walter W. Krug DBA Wallen Production Company

DEVELOPMENT PLAN FOR SURFACE USE Walten Foderal #11 Well 1650' FWL and 330 FSL Section 20, T 20 S, R 34 E, Lea County, New Mexico

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1. AERIAL MAP

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- 3. PROPOSED WELL

LOCATION

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a. <u>Mat</u> size is 140' x 180'.

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- 3. Residences and buildings none within 6 miles.
- 4. Arroyos, Canyons, etc none within $1\frac{1}{2}$ miles.
- h. Well sign there will be a well sign at the entrance of the road.
- i. Open Pit will be guarded while drilling, fenced while we are completing the well and then closed in.

4. ROADS

5. TANK BATTERY

6. LEASE PIPELINES

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- 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		683-2600 683-6526
home	phone		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 Hab

Walter W. Krug Engineer and authorized agent





WALLEN PRODUCTION CO. - FED#11 SW/4, SE/4, SW/4, Sec. 20, T205, R34E LEA COUNTY, NEW MEXICO

16 Hanson Oil Berny Fad 7 -Muss #1 22 21 20 Wallen Fed#9 PROPOSED LOCATION Carpar IAH F<mark>a</mark>d Sinclair Ballard 6 Proposed flowlines Gos inter inc Proposed Roads Wilson Husz Wallen Fed 10 Vallen Fod II Wallon Freez 28 Walter Carpan Threlkeld */ Culvert Gasling Fad 000 Fee tank battery Existing roads Hudson Singleton#1



AGREEMENT

Noranda Exploration, Inc have no objection to Walter W. Krug, DBA Wallen Production Co's casing program on a well located in 1650 FWL and 330 FSL 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.

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HOBBS DISTRICT

Walter W. Krug dba Wallen Prod. Co. No. 2 Bass SE坛SW坛 Lea County, New Mexico

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.
- 3. 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).

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.

- 8. 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.
- 9. 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.