SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE IN	reverse sid	ol-139-22504
GEOLOGICAL SURVE		Jicarilla 37-B Cont. 13
APPLICATION FOR PERMIT TO DRILL, D		
	PELI EIN, OR TEOO D	O TCGT TITG
DRILL DEEPEN] PLUG BAC	7. UNIT AGREEMENT NAME
OIL GAS WELL OTHER NAME OF OPERATOR	SINGLE X MULTIPL	Jicarilla 37 B /
Ken Blackford		9. WELL NO.
P. 0. Box 108 Lubbock, Texas 79	408	10. FIELD AND FOOL, OR WILDCAT
4. LOCATION OF WELL (Report location clearly and in accordance with At surface 800' fnl & 800' fel	any Pte Cur medity E	Ballard PC
At proposed prod. zone	JUL 2 2 1980	11. SEC., T., B., M., OR BLK. AND SURVEY OR ARBA 26, T 24 N - R 5 W
		NMPM
'4 DISTANCE IN MILES AND DIRE TION FROM NEAREST TOWN OR POS'	FARMINGTON, N. M	, , , , , , , , , , , , , , , , , , ,
15. DISTANCE FROM PROPOSED® LOCATION TO NEAREST PROPERTY OR LEASE I INE, FT.	1600	17. NO. OF ACRES ASSIGNED TO THIS WELL 160
(Also to nearest drig. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1400	19. PROPOSED DEPTH 2500 *	20. ROTARY OR CABLE TOOLS Rotary
21. BLEVATIONS (Show whether DF, RT, GR, etc.)		22. APPROX. DATE WORK WILL START*
6680 GL (to	opo)	7/15/80
PROPOSED CASI	NG AND CEMENTING PROGRA	.м
SIZE OF HOLE SIZE OF CASING WEIGHT PERF		QUANTITY OF CEMENT
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	100' 2500'	50 sx.
0-3/4 4-1/2 10.5	2,000	100 DX:
Drill approximately 100' of 11" surface casing, circulate cemen	hole, set 100' (of 8-5/8" 32.0 lb.
Drill 6-3/4" hole to 2500', set cement with 100 sx class B, to	4-1/2" casing 10 cover Ojo Alamo.	0.5 lb. to total depth,
Selectively perforate approximation frac selected zones.	tely 30 feet of s	sandstone, sand water
Run 2-3/8" tubing to 2450', plac	ce on production	
		OIL CON 2980
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to decide. If proposal is to drill or deepen directionally, give pertiner preventer program, if any.	pen or plug back, give data on put data on subsurface locations a	nd measured and true vertical depths. Giv blowout
\mathcal{L}		

TITLE Agent - Geologist DATE June 10, 1980 (This space for Federal or State office use) APPROVAL DATE ... PERMIT No. ____ 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 boundaries of the Section.

Operator			Lea	se		·····	Well No.
	n Blackford			Jicarilla 37 B			8
Unit Letter	Section 26	Township 24 N		Range 5 W	County	Rio Arr	iba
Actual Footage Loc 800		iorth line o	md	800	t from the	East	line
Ground Level Elev.	Producing For		Poo		nom me	I	Dedicated Acreage:
6664	PICTUR	ED CLIFF		BALLARD			160 Acres
1. Outline th	e acreage dedica	ted to the subject	well l	oy colored pencil or	r hachure m	arks on th	e 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).						
		ifferent ownership nitization, force-po			have the in	terests of	all owners been consoli-
Yes	☐ No If an	iswer is "yes;" typ	e of co	nsolidation	· · · · · · · · · · · · · · · · · · ·		
If answer	is "no?" list the	owners and tract d	escript	ions which have ac	tually been	. consolida	ited. (Use reverse side of
this form i	f necessary.)						
							nunitization, unitization, approved by the Commis-
	1			1	T1	 	CERTIFICATION
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ll u.	S. GEOLOGICAL SU	JRVEY		 		-	Professional Engineer
	FARMINGTON, N.	М.		1		and/or Land Freder	isurveyor ick H. Reed
						Certificate	
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Operations Plan

Ken Blackford, Jicarilla 37-B-8

1. Location:

800' fnl & 800' fel

Sec. 26, T 24 N - R5W N.M.P.M. Rio Arriba County, New Mexico

2. Geology:

Α.	Formation to	ops: T	Wasatch	Spud
n.	TOTMATOTOT	T	Ojo Alamo	1900
			Kirtland	2050
			Fruitland	2205
			Pictured Cliffs	2370
			Lewis	2440
		TI		2500

B. Logging program:

IES, surface casing to TD. GR-CNL-FDC-Caliper, 2500' to 1000' GR correlation log in casing for perforations

C. Coring program:

None

3. Drilling:

- A. Rotary tools, surface to TD
- B. Surface hole with fresh water & spud mud
- C. Fresh water gel mud from surface to TD

4. Materials:

A. Casing program:

Hole size	Depth 100'	Casing size 8-5/8" 4-1/2"	Wt. &Grade 32.0 K-55 10.5 K-55
6-3/4*	2500 '	4-1/2	10.7 K-77

B. Float equipment:

Halliburton Texas pattern guide shoe for surface.

Halliburton 4-1/2" guide shoe w/ insert float valve one joint above shoe.

Use four Halliburton 4-1/2" centralizers, every other joint above shoe.

C. Tubing:

2450° of 2-3/8" 4.7 lb. 8rd EUE tubing w/ common pump seating nipple above perforated nipple & bull plugged

Ken Blackford, Jicarilla 37-B-8

Operation ---

full joint for mud anchor.

D. Well head equipment:

2000 psi test tree.

5. Cementing:

- A. 8-5/8" surface casing, use 50 sx class B w/ 2% Ca Cl. Yields 59 cu. ft. = 125% excess to circulate. WOC 12 hrs. test casing to 500 psi for 30 minutes.
- B. 4-1/2" production casing. Precede cement w/ 20 bbls. fresh water. Cement w/ 100 sx classB, yields 118 cubic feet = 40% excess to cover Ojo Alamo.

6. Completion:

A. Selectively perforate approximately 30° of ss and treat w/ sand water frac. Use approximately 40,000 gals. water and 60,000 lbs. 20/40 sand.

Multi-Point Surface Use Plan Ken Blackford, Jicarilla 37-B-8 ne/nw Sec. 26, T24N - R5W

- 1. Existing Road- Please refer to map No. 1, which shows the the existing roads.
- 2. Planned access roads- Please refer to map No. 1, approximately 100' of road will have to be constructed in a southwesterly direction from the existing well traveled road. The grade of the access road will be consistent with that of the local terrain. The road surface will not exceed thirty feet in width. Upon completion of the project, the access road will be properly drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts, or any other measures deemed necessary by trained company personnel to secure proper drainage.
- 3. Location of existing wells- Please refer to map No. 1.
- 4. Location of tank batteries, production facilities, and production gatheringand service lines- Please refer to map

 No. 1. No tank batteries are utilized in this area. Production facilities consist of a meter run which is constructed on the well site. Gathering lines are all buried and their true positions are unknown to myself although I am sure that this is a matter of record, filed by the purchaser, with the proper regulatory agencies.
- Location and type of water supply- Water for the proposed project will be obtained from the Largo Wash.
- 6. Source of construction materials- No additional materials will be required to build either the access road or the proposed location.
- 7. Methods of handling waste materials— All garbage and trash materials will be put into a burn pit, shown on the attached location plat No. 1. When cleanup operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet.

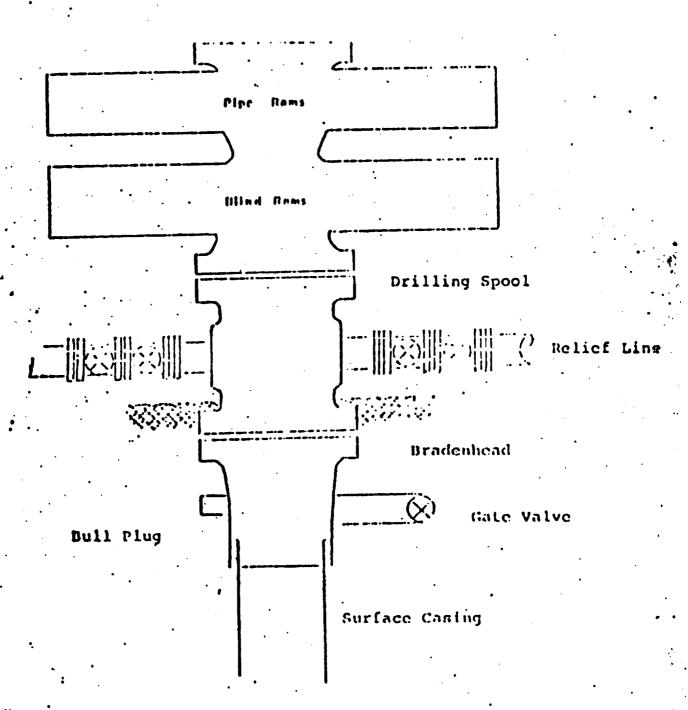
 A latrine, the location of which is shown on plat No.1, will be provided for human wastes. If large amounts of liquids are left in the reserve pit after completion of the project,

the pit will be fenced until the liquids have had adequate time to dry. The location clean up will not take place until such time as the reserve pit can be properly covered over to prevent run off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.

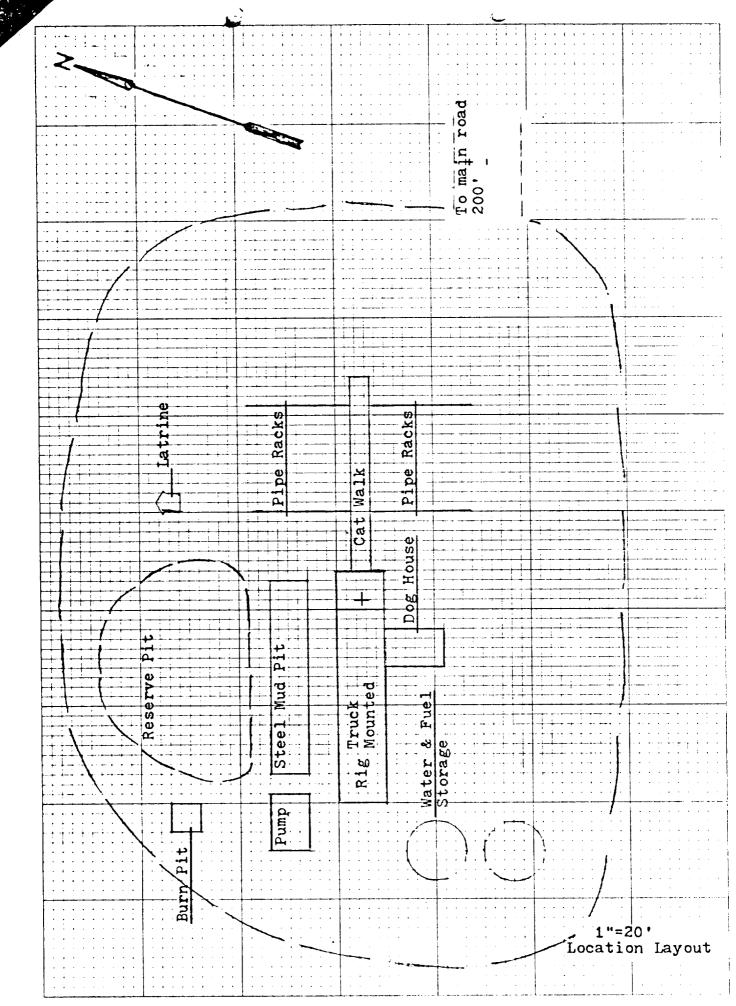
- 8. Ancillary facilities- No camps or airstrips will be associated with this project.
- 9. Wellsite layout- Please refer to the attached plat Ex. No. 2.
- 10. Plans for restoration of the surface- After completion of the project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. We await specific instructions as to the reseeding. The reseeding operation will be performed during the time period set forth by the proper regulatory body.
- 11. Other information- The immediate area is relatively flat and sandy. A few head of cattle and sheep occasionally graze the proposed project site.
- 12. Operators representative— B.F. Latch
 93 Riverview Drive
 Durango, Colo. 81301
 303-247-5050
- 13. Certification— 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 preformed by Ken Blackford, (operator) and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

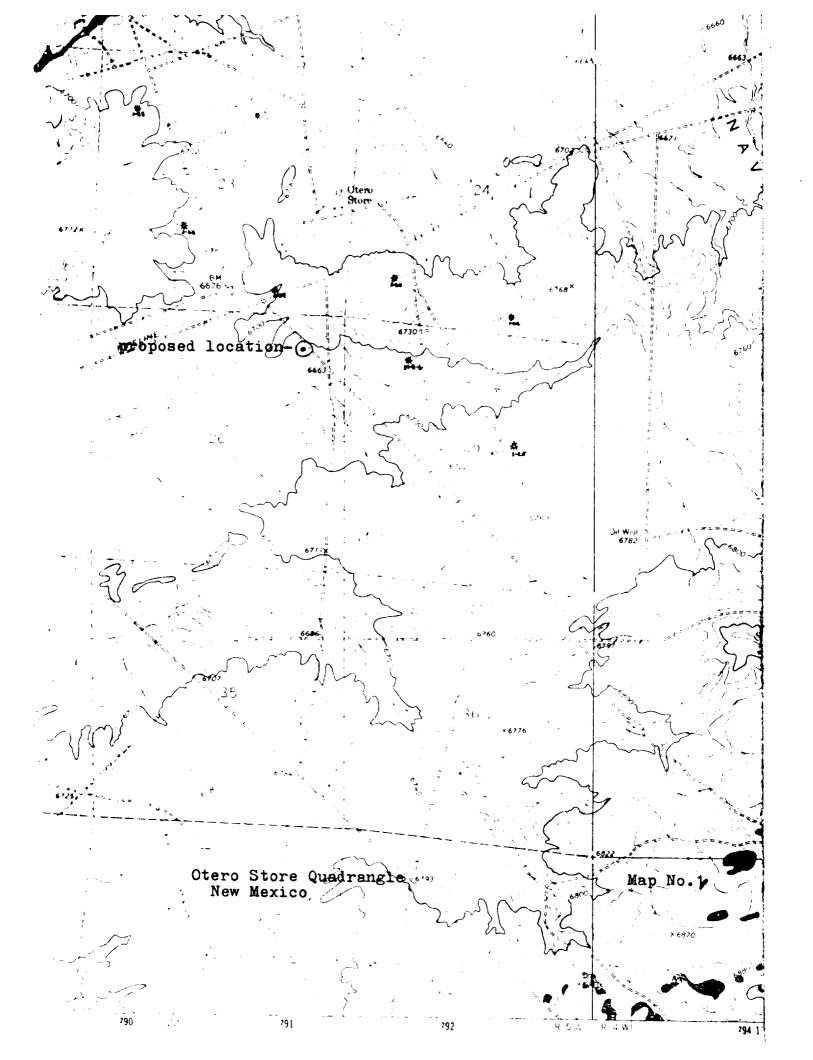
B. F. Latch 4/10/80

Agent for Ken Blackford (operator)



Scrice 900 Double Gate NOP, rated at 3000 psi Working Pressure





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