

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Sanan, Ltd.

3. ADDRESS OF OPERATOR

P.O. Box 255, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1450' fsl, 1190' fel

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

21 miles south of Farmington

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1190'

16. NO. OF ACRES IN LEASE

160

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

460'

19. PROPOSED DEPTH

1250'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5996 Gr.

22. APPROX. DATE WORK WILL START*

Nov. 15, 1973

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7"	23#	32	6 Sacks regular
4 3/4"	2 7/8"	6.5#	1250	60 Sacks regular

It is proposed to drill an 8 3/4" hole to 32', set one joint of 7", 23# surface casing with 6 sacks regular cement, after 12 hrs. setting time to drill a 4 3/4" hole to a total depth of 1250' to test the Pictured Cliffs Ss. If an electrical log evaluation indicates possible gas-productive zones in the Pictured Cliffs or Fruitland formations the 2 7/8", 6.5# tubing will be run to total depth and cemented to the surface casing with 60 sacks cement and a completion attempt will be made by perforating the likely zones. No blow-out preventer is contemplated as a mud weight sufficient to control expected low-pressure zones is planned. During any completion attempt a master valve and stripping head will be utilized. Estimated formation tops are: Ojo Alamo-surface, Kirtland Sh.-185', Fruitland Fm.-920', Pictured Cliffs Ss.-1195'.

gas is indicated

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

William R. Speer

TITLE

Agent

DATE Oct. 10, 1978

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

**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.

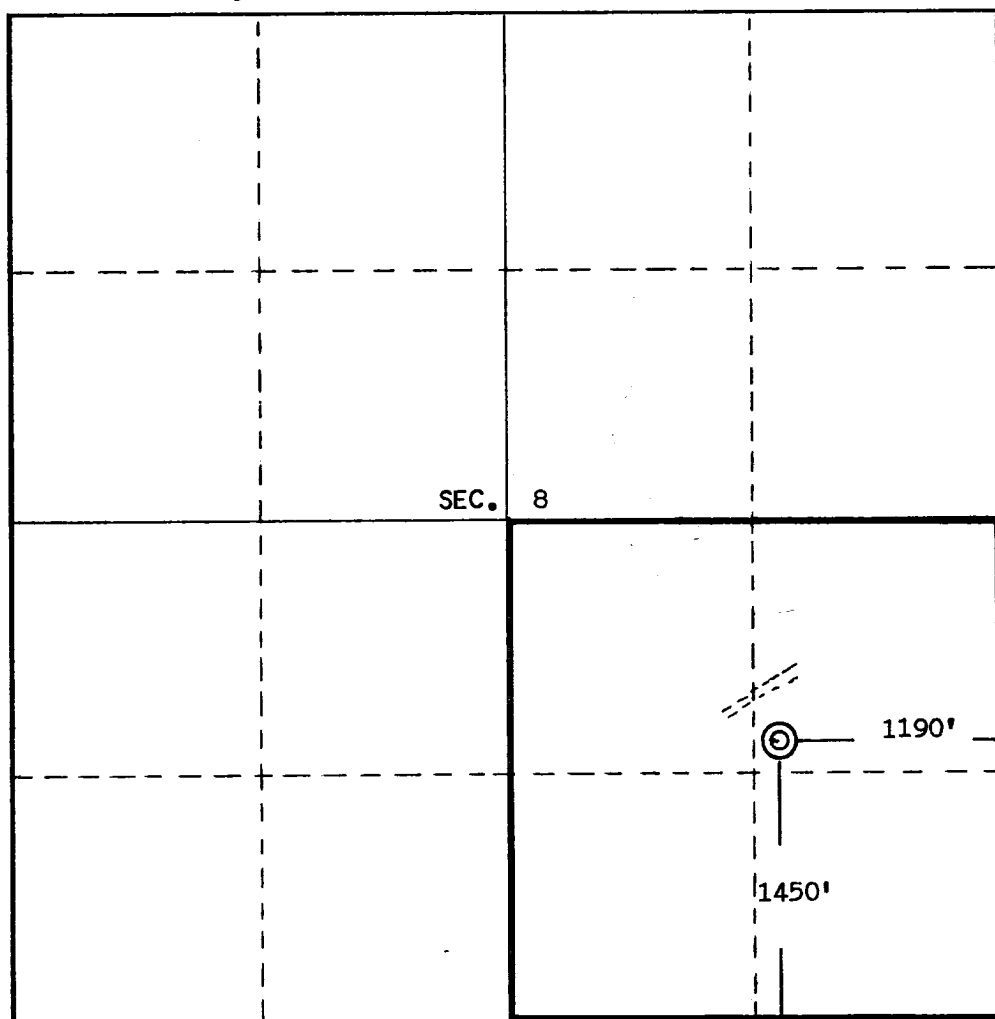
Operator Sanan Ltd.			Lease (SF-080008) Crab		Well No. No 1
Unit Letter I	Section 8	Township 26 North	Range 12 West	County San Juan	
Actual Footage Location of Well: 1450 feet from the South line and 1190 feet from the East line					
Ground Level Elev. 5996	Producing Formation Pictured Cliffs Ss.	Pool WAW Fruitland-Wildcat Pictured Cliffs		Dedicated Acreage: 160 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). **N.A.**
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 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. Acreage is dedicated to a gas purchase contract with El Paso Nat. Gas Co.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name **Wm R. Speer**
Position **Agent**
Company **Sanan, Ltd.**

Date **October 10, 1978**

I hereby certify that the well location shown on this plat was located from field notes of actual survey made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
September 28, 1978

Registered Professional Engineer
and/or Land Surveyor

Edgar L. Risenhoover
Certificate No. **5979**
Edgar L. Risenhoover, L.S.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

[illegible]

WILLIAM R. SPEER
CONSULTING GEOLOGIST
Petroleum Club Plaza Bldg.
Farmington, New Mexico 87401

P.O. BOX 255 PHONE 505-325-7789
Certified Professional Geologist # 1121
Petroleum and Mineral Evaluation and Management

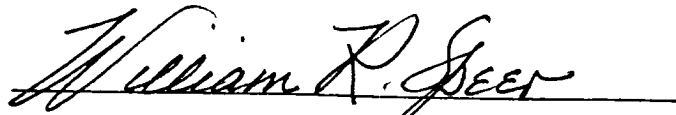
DEVELOPMENT PLAN FOR SURFACE USE

For proposed Sanan, Ltd. #1 Crab well
located 1450' fsl, 1190' fel, Sec. 8,
Township 26 North, Range 12 West,
N.M.P.M., San Juan County, New Mexico.

1. The attached topographic map indicates the proposed location of the well as well as the location of existing roads and existing wells in the immediate area.
2. The proposed location is accessible via state highway 371 south to the El Paso Natural Gas Company's Chaco Plant entrance, then northwest one mile on an improved dirt road, then 1500' southwest to the Bedford, Inc. #1 Frontier "A" well. A dirt road extends past this location to the southwest within 200' of the proposed location, which is 460' southwest of the Frontier "A" well.
3. The attached rig location layout plan indicates the only dirt work anticipated is the digging to two mud reserve pits, approximately 8'X6'X6' in size, immediately adjacent to the hole. Upon completion of the well all waste materials will be placed in these pits and the pits filled to present terrain level.
4. No additional wells are presently planned on this lease. Should the proposed well prove productive, any production or storage facilities will be installed within a 200' radius of the proposed hole, as dictated by the need of a future tie to a presently-existent gas-gathering system, should the well be gas-productive. The gas-gathering system presently extends to the #1 Frontier "A" well 460' to the northeast.
5. Water for drilling the well will be obtained from El Paso Natural Gas Company's Chaco Plant facilities and will be hauled by truck to the location.
6. No permanent camp or airstrip facilities are proposed.
7. Upon completion of the drilling operation, the location will be cleaned up, pits filled, location leveled and any disturbed area not utilized for producing well facilities will be re-seeded as required.
8. The lessee and operator's representative is William R. Speer, P.O. Box 255, Farmington, New Mexico 87401; telephone 325-7789 or 325-2520.

9. Certification:

I hereby certify that I 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 me, as agent for Sanan, Ltd., or by their contractors and conditions under which it is approved.

A handwritten signature in cursive script, reading "William R. Speer", written over a horizontal line.

William R. Speer, Consulting Geologist
for Sanan, Ltd.

RIG LOCATION LAYOUT DIAGRAM
FOR SANAN, LTD. #1 CRAB WELL
1450' FSI, 1190' FEI,
S8-T26N-R12W,

SAN JUAN CO., N.M.

