Form 9-331 C (May 1963)		C COPY ED STATES		MIT IN TRIP ther instruct reverse side	on		
	DEPARTMENT				ľ	5. LEASE DESIGNATION A	
GEOLOGICAL SURVEY						LC 029387(b)	
APPLICATIO	N FOR PERMIT T	O DRILL, D	DEEPEN, OR	PLUG BA	<b>CK</b>	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TIPE OF WORK DR b. TYPE OF WELL		DEEPEN [	_ PL	.UG BACK		7. UNIT AGREEMENT NA	ME
OIL XX GAS OTHER SINGLE MULTIPLE   2. NAME OF OPPEATOR 2. NAME OF OPPEATOR					8. FABM OB LEASE NAME Shugart "D"		
Shenandoah O	il Corporation -					9. WELL NO.	
3. ADDRESS OF OPERATOR	P.O. Box 102 e Building - For	7 - Odes. t-Worth, Te	exas - 76102	•		13 10. FIELD AND POOL, OF Shugant	<i>, c</i>
4. LOCATION OF WELL (1 At surface	Report location clearly and	in accordance wit	h any State requiren	ents.*)		Shugart 4-9	
At proposed prod. zo	30' FNL and 2310	FEL Sec.	30-185-3RC E	CEN	VEI	11. SEC., T., R., M., OE B AND SUEVEI OF ABJ Sec. 30-185-31	EA
	AND DIRECTION FROM NEAD theast of Loco H		· ·····		978	12. COUNTY OB PARISH Eddy	13. BTATE New Mexico
15. DISTANCE FROM PROI LOCATION TO NEARES PROPERTY OB LEASE (Also to perfect dr	BT	330	16. NO. OF ACRES 1 360AR	TESIA, OFF	17. NO. 0 • TO TI	P ACBES ASSIGNED HIS WELL 40	
18. DISTANCE FROM FROPOSED LOCATION <sup>4</sup> TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		660	19. PROPOSED DEPT 3850			Rotary	
	bether DF, RT, GR, etc.) 3,632 Gr					22. APPROX. DATE WOR March	10, 1978
23.	I	PROPOSED CASIN	IG AND CEMENTI	G PROGRAM	1		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	OOT SETTING	DEPTH	QUANTITY OF CEMENT		
11-1/4	8-5/8"	24#		50	Circulate		
7-7/8	5-1/2"	14#	3,8	50	Circulate		
•			1				
Logs	s planned to dri ; set pipe to TE e in Penrose and	); cement to	o surface if	n Sidewa possible	e; per F	FEB 61978	<b>`</b>

- .

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.

BIGNED C. W. DOWNEY, Jr	TITLE Division Mgr., WT-NM Div.	DATE February 2, 1978
(This space for Federal or State office use)		
APPROVED BY APPROVED BY APPROVED BY ADA	APPBOVAL DATE	MAR 1 - 1978 MAR 1 - 1978
THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS, EXPIRES JUN 1 = 1978, *See	Instructions On Reverse Side	

NEM MEXICO OIL CONSERVATION COMMISSION WEL. OCATION AND ACREAGE DEDICATION LAT

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Form C-132 Supersedes C-128 Etternive 19965

		All distances must be from	the outer boundaries of the	Section			
SHENANDOAH OIL CORP. Shugart "D"					13		
nut Lietter B <b>H</b>	30	18 South	31 East	Eddy	Eddy		
330	teet from the No.	7117E (4)G	310 test to	East			
Ground Lyver Elev. 3632	Fite during Formut P Gb.	107) E die	SHUGART	174 Q. 19	40 ACRES		
1 Outline th	e acreage dedicated	l to the subject well l	by colored pencil or h	achure marks on the p	the second subjection of the second		
2. If more th interest ar	nan one lease is de nd royalty).	dicated to the well, or	itline each and identi	fy the ownership Ear	of (both as to working)		
dated by c	ommunitization, unit	ization, force-pooling.	etc?	CEB	owners been consult.		
[]Yes	No If answ	er is "yes," type of co ners and tract descript:	nsolidation	U. S. HEULUAION NEW N	EXICO		
inis form i	i necessary )			ally been consolidated	. (Use reverse side of		
No allowat forced-pool sion.	ble will be assigned ling, or otherwise) or	to the well until all into until a non-standard un 	erests have been con it, eliminating such i	solidated (by commun nterests, has been app	itization, unitization, proved by the Commis-		
		3 30		CE	RTIFICATION		
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	, 				s true and complete to the wiedge and belief		
				1.27.0			
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×	-		1	2.g	-78		
			1		fy that the well-location platwas plotted from field		
				under my supe	I surveys made by me or rvision and that the some		
	, , , , , , , , , , , , , , , , , , , ,		NEW ME	s row eage and	areat to the best of mu belief		
	: 1 .		HERSCHEL	g January	28, 1978		
			3640		1 Days		
			Seattle Land State	1 Lens	chur the		



B. J. KELLENBERGER

1500 COMMERCE BUILDING FORT WORTH.TEXAS 78102 817/332-7381 TWX: 910 890 5023

February 2, 1978

U. S. Department of the Interior Geological Survey - Conservation Division South Rocky Mountain Area c/o Geological Survey Office Post Office Drawer "U"

Artesia, New Mexico 88210 Attention: Mr. Joe Lara

SHENANDOAH OIL CORPORATION

Re: Supplement to Shenandoah Oil Corporation's Application for Permit to Drill Well in Unit "B", Section 30-18S-31E, Eddy County, NM

Gentlemen:

This letter will attempt to provide all the information needed for your approval of the Application for Permit to Drill well in Unit Letter "B", Section 30-18S-31E, Eddy County, New Mexico. This information will be listed in the same order as shown in the NTL-6 Notice.

- 1. Location shown on surveyor's plat
- 2. Elevation shown on surveyor's plat
- 3. The geologic name of the surface formation is Quaternary Alluvium deposits
- 4. Type drilling tools used will be rotary
- 5. The proposed drilling depth is 3,850'
- 6. Estimated tops of geologic markers are:
  - (a) Upper Penrose 3,405<sup>+</sup>
  - (b) Lower Penrose 3,470'
  - (c) Upper Grayburg 3,585'
  - (d) Lower Grayburg 3,740'
- 7. Estimated depth for water, oil and gas-bearing formations is same as listed in No. 6 above
- 8. Casing program we plan to run all new pipe as listed on Application to Drill

U. S. G. S. - Conservation Div.

-2-

- 9. The setting depth of all casing is shown on Application to Drill. It is planned to circulate cement on both strings. On surface string, probably Type "H" with some salt and CFR2 will be used. On the production string, we will use several hundred sacks of lite cement followed by Type "H" cement with some salt, sand and CFR2 as determined by the hole condition. "Mud Flush" will be used ahead of the cement on the production string. After running caliper log, it is possible that a "DV" tool may be run in 5-1/2" pipe in an attempt to circulate cement.
- 10. Pressure control equipment is listed as Exhibit No. 3. The BOP will be tested before drilling below surface pipe and before drilling anticipated oil and gas formations.
- 11. The mud program will be, as recommended, by a reliable mud engineer. We will start to mud up at approximately 3,700' with viscosity of 34-38 and 9.5# salt-gel mud.
- 12. Logging and testing is shown on Application to Drill.
- 13. No abnormal hazards are expected.
- 14. Anticipated starting date is March 10-18, 1978. Duration of operations should be eight days.

I hope that this information, along with already submitted information, will be sufficient for you to approve this Application to Drill.

Respectfully,

SHENANDOAH OIL CORPORATION

OM barney &

C. W. Downey, Jr., Division Manager West Texas-New Mexico Division

CWDJr:ah Enclosures

cc: D. Boland

## SHENANDOAH OIL CORPORATION

United States Geological Survey Conservation Division South Rocky Mountain Area c/o Geological Survey Office Post Office Drawer "U" Artesia, New Mexico 88210

B. J. KELLENBERGER PRESIDENT

1500 COMMERCE BUILDING FORT WORTH. TEXAS 76102 817/332-7381 WX: 910 890 5023

February 2, 1978

Re: Shenandoah Oil Corporation Application for Permit to Drill Well in Unit "B", Section 30-18S-31E, Eddy County, New Mexico

RECEIVED

FEB 61978

U.S. BEULUGICAL SURVEY

ARTESIA, NEW MEXICO

## Gentlemen:

In regard to the "Multi-Point Surface Use and Operation Plan" to be attached to Application for Permit to Drill, the requirements to all lessees and operators of Federal Leases will be answered in this instrument in the order listed in your guidelines:

1. Existing roads and exits from main highways will be shown on Exhibit No. 1 (attached). One locatable reference point on Exhibit No. 1 is a pumping well on the east side of Highway No. 31 (6-1/4 miles south of State Highway No. 82) almost 1 mile east of proposed location. The number of this well is Shugart "A" (APCO) No. 1. The location of this well is Unit Letter "A", 660 feet FEL, Section 29-18S-31E.

2. Planned access road to proposed location is shown on Exhibit No. 1 and will be approximately 12 feet wide and 600-700 feet long. Road will be surfaced, watered and compacted and graded. No gates or fences will be needed.

3. Locations of existing producing and plugged wells are shown on Exhibit No. 1.

4. Locations of existing tank batteries, flow lines, buried injection lines are shown on Exhibit No. 2. The proposed flow line for the proposed well will be tied into an existing flow line and the oil will be produced into an existing tank battery. The proposed flow line will be approximately 500-600 feet long. Other than the flow line, no new production facilities will have to be constructed.

5. For water supply for drilling and cementing, it is planned to purchase the water from one of the water companies in the area and truck it to the proposed location over existing road shown on Exhibit No. 1.

6. The material used to construct the proposed access road and rig location will be dug from one of several existing pits in the area. One existing pit is located between Shenandoah's Shugart "A" No. 9 Well and Federal Keohane et al "A" No. 2 Well. The materials will be hauled over existing roads.

7. For handling waste disposal, we will dig a separate pit while making location. This pit will be large enough and deep enough to cover all waste material with a two-foot cover. The drilling fluid will be allowed to evaporate and dry up and will be covered up in the pit when location is cleaned up.

8. No air strip will be constructed. All permanent type structures in the area are shown on Exhibit No. 1.

9. Layout of rig, etc. will be shown on Exhibit No. 3. The location will be kept as small as possible to accomodate rig.

10. As soon as practical after the drilling and completion of the proposed well, all the pits and all areas other than the proposed access road and the compacted location will be cleaned and pits covered. This will be a very small amount of land and should create very little impact on the environment as the topography is mostly sand with very little vegetation and no large hillsides or gullies.

11. See No. 10 above for description of topography. The surface ownership of the land for the proposed location and proposed access road are all Federal. All occupied dwelling houses and other facilities are shown on Exhibit No. 1.

12. If approved, this total opration will be overseen by our District Superintendent, Mr. Dale Boland, Post Office Box 65, Loco Hills, New Mexico, 88255; office phone (505) 677-2233; home phone (505) 396-5593; mobile phone (505) 676-3380.

If he cannot be reached, please contact C. W. Downey, Jr., Division Manager, Post Office Box 1027, Odessa, Texas, 79760; office phone (915) 381-2794.

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the stateU.S.G.S.-Artesia

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February 2, 1978

ments 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 Shenandoah Oil Corporation and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

February 2, 1978 Date

C.M. Daw C. W. Downey, Jr.

Division Manager

I hope that the plats and this letter will give you sufficient information to approve this Application to Drill. If you do need additional information, please call either Mr. Boland or myself at any of the phone numbers listed in the No. 12 part of this letter.

Respectfully yours,

SHENANDOAH OIL CORPORATION

( M. Rosune d

C. W. Downey, Jr., Manager West Texas-New Mexico Division

CWDJr:ah Enclosures

cc: Mr. Dale Boland







Schaeffer Type E 10" Series 900 Hydraulic BOP. The waste and debris from this well will be disposed of in a reserve pit and covered up.