MY OCC COPY

SUBMIT IN TRY CATE (Other instruc 3 on reverse side,

Form approved.
Budget Bureau No. 42-R1425. 30-015-22432

IIN TED STATES

	DEPARTMENT	OF THE IN	TERIO	3 5 7 5 1	VEN	5. LEASE DESIGNATION	
		SICAL SURVEY			VED	LC 029387	
A DDI ICATION	N FOR PERMIT T			OMARLUG :	BACK	6. IF INDIAN, ALLOTTEE	
1a. TYPE OF WORK DRI	LL XX	DEEPEN		PLUG BA		7. UNIT AGREEMENT N	AME
OIL XX GA	AS OTHER	÷	SINGLE	ARTESIANTO P	PICE	S. FARM OR LEASE NAI	
2. NAME OF OPERATOR Shenandoah Oi	1 Corporation					Shugart "D" 9. WELL NO. 12	· · · · · · · · · · · · · · · · · · ·
3. ADDRESS OF OPERATOR	Po. Box /o Building - For	t Worth, Tex	xas - 7	16102	o 0	10. FIELD AND POOL, C	R WILDCAT
4. LOCATION OF WELL (R	eport location clearly and	in accordance with	any State	requirements.*)		> Shugart	
Unit "F" - 23 At proposed prod. 201	191 FML and 165	50' FNL - Sei ο' FωL	c.30-18	3S-31E		Sec. 30 - T	REA
14. DISTANCE IN MILES 14 mi. southe	and direction from NEA	EEST TOWN OF POST	office*			12. COUNTY OR PARISH Eddy	New Mexico
15. DISTANCE FROM PROP- LOCATION TO NEARES PROPERTY OR LEASE I (Also to nearest dr)	DSED* ILINE, FT.	550	16. No. or 36	ACRES IN LEASE	TO T	of acres assigned his well 40	
18. DISTANCE FROM PROD TO NEAREST WELL, D OR APPLIED FOR, ON TH	POSED LOCATION*	660	19. proposi		20. ROTA	Rotary	•
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)					22. APPROX. DATE W	
3614 Gr						February 2	0, 1970
23.]	PROPOSED CASING	G AND CE	MENTING PROG	KAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	OT	SETTING DEPTH	_	QUANTITY OF CEME	NT
11-1/4	8-5/8"	24#		750'		rculate	
7-7/8	5-1/2"	14#		3,850'	<u> </u>	<u>rculate</u>	
	1				. [
Logs; se	anned to drill t pipe to TD; c se and Grayburg	ement to surf	350', r face if	un Sidewall possible:	Neutro perfora	on and Caliper te and complet	ce

RECEI 6 1978

FEB 6 1978

U.S. BEULUGICAL SURVEY
ARTESIA, NEW MEXICO

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

venter program, if any.		
SIGNED C. W. DOWNEY, Jr.	TITLE Division Manager, WT-NM	· · · · · · · · · · · · · · · · · · ·
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	FEB 2 8 1978
APPROVED BY LOR J. LANA	ACTING DISTRICT ENGINEER	PATE FEB 2 8 1978
CONDITIONS OF APPROVAL, IF ANY:		

THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS. MAY 2 8 1978 ...

NET TEXICO OIL CONSERVATION COMMISSION WELL LUCATION AND ACREAGE DEDICATION . . AT

All distances must be from the outer boundaries of the Section Well tio. 12 "D" . . : a'c: Shugart SHENANDOAH OIL CORPORATION County Eddy 31 East 18 South 30 cation of Well: 7 14 L. West hne and North 1650 Dedicated Acresge: 40 3614 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the 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). U.S. BENEVICE SURVEY consoli-3 If more than one lease of different ownership is dedicated to the well, have the interests of ARTESIA, NEW MEXICO dated by communitization, unitization, force-pooling, etc? 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 knowledge and belief. Date Surveyed January 28, 1978 Beatstore: Frojesstinal Engineer 3640

2000

1320 1650 1980 2310



SHENANDOAH OIL CORPORATION

1500 COMMERCE BUILDING FORT WORTH.TEXAS 76102 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

Re: Supplement to Shenandoah Oil Corporation's Application for Permit to Drill Well in Unit "E", 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 "E", Section 30-18S-31E, Eddy County, New Mexico. This information will be listed in the same order as shown in the NTL-6 Notice.

- Location shown on surveyor's plat
- 2. Elevation shown on surveyor's plat
- 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 3,388
 - (b) Lower Penrose 3,430 h(c) Upper Grayburg -3,545 h
 - (d) Lower Grayburg -3,730
- 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

- 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 February 20 28, 1978, or when rig is available. Duration of operations should be 8 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

CM Downg &

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

CWDJr:ah Enclosures

cc: D. Boland



SHENANDOAH OIL CORPORATION

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

United States Geological Survey Conservation Division South Rocky Mountain Area c/o Geological Survey Office Post Office Drawer "U" Artesia, New Mexico 88210 RECEIVED February 2, 1978

FEB 61978

U.S. GEOLOGICAL SURVEY

NATIONAL NEW MEXICO

Re: Shenandoah Oil Corporation
Application for Permit to
Drill Well in Unit "E", Section 30-18S-31E, Eddy County, 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 400-500 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 accommodate 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 state-

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. 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,

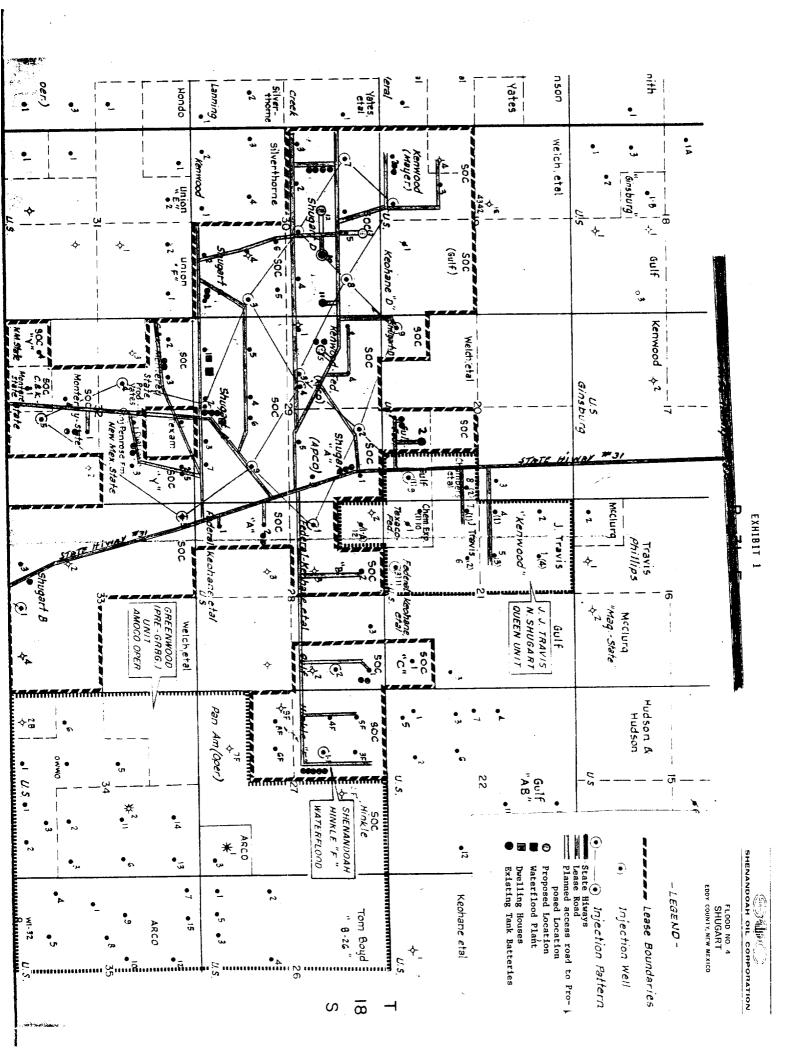
SHENANDOAH OIL CORPORATION

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

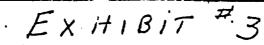
CWDJr:ah Enclosures

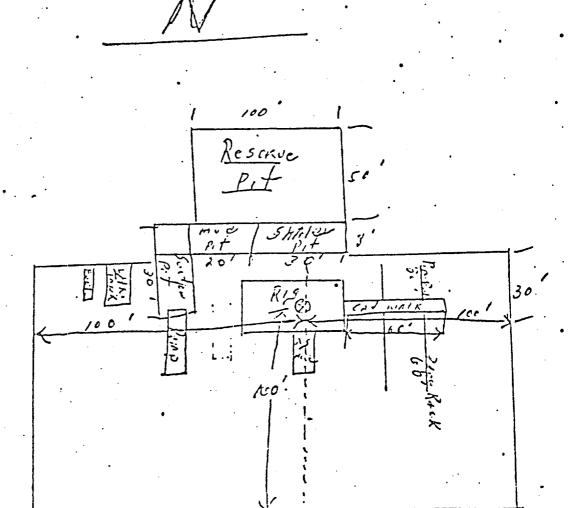
cc: Mr. Dale Boland



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U.S • ; • 2	**************************************	• 14	*-0	SOC HINKLE SHENANDOAH HINKLE "F" WATERFLOOD	5.	Gulf "AB" 22		SHEZVAZ
W1.32 U.S	• 8 • 355	7 • 15	2 44	Tom Boyd	± 5.5.	N.C.	Lease Boundaries Injection Well	FLOOD NO. 4 SHUGART EDDY COUNTY, NEW MEXICO
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KIS 1 L. CHIKN SHIND TIT Specs,





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.