Form 9-331 C (May 1963)

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

		TED STATES T OF THE IN	TERIOR	reverse si	ide)	30-045-232/3 5. LEASE DESIGNATION AND SERIAL NO.
		GICAL SURVEY				NM 10561
APPLICATION	N FOR PERMIT	TO DRILL DE	FPFN OR	PLUG 8	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
la. Type of Work						7
	LL 😡	DEEPEN 🗌		PLUG BAC	CK 🗌	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	AS OTHER		SINGLE ZONE	MULTIP ZONE	LE	E. FARM OR LEASE NAME
WELL W. W. NAME OF OPERATOR	Santo Ex ma		2002		. :	Big Field
Dugan P	9. WELL NO.					
ADDRESS OF OPERATOR	, Farmington,	VIM 97/101				10. FIELD AND FOOL, OR WILDCAT
L LOCATION OF WELL (R	Harper Hill Fruitland					
At surface 1850' F	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA					
At proposed prod. zon						
A DISTANCE IN MILES	AND DIRECTION FROM NEA	PEST TOWN OR POST (PRICE*			Sec 3 T30N R14W
	northwest of				:	San Juan NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST	SED*		6. NO. OF ACRES	IN LEASE		OF ACRES ASSIGNED
PROPERTY OR LEASE I	1760'	60' 1397.16			160	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. approx.		į.	9. proposed dei 1400	1400'		RY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show who	ther DF, RT, GR, etc.) 5713 GR					22. APPROX. DATE WORK WILL START* 10-18-78
23.					1 1 5	
		PROPOSED CASING	AND CEMENT	ING PROGRA	A M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	r SETTI	SETTING DEPTH		QUANTITY OF CEMENT
7-7/8 4-3/4	5-1/2 2-7/8	14#	<u> </u>	40' 400'		10 sx 00 sx
4-3/4	2-110	υ. 4π		.400	-	
		İ	İ			그는 무슨 이 하는데 그리네를 가지 않는다.
formation	on. If product	ive, plan to	set 2-7/8	3" tubing	for c	Pictured Cliffs asing, selectively and complete well.
Do not p and str	olan to use a b ipper head whil	lowout preven e completing	nter while well.	drillin	REC	11 use master valve
NMERB R	equirement: <u>Ga</u>	s dedicated	4		ine Co	AD. 5 1978
an an an ana	e who housen brockin. If	proposal is to deeper	SEP 6	ofe data of p	u. S.	ductive zone and proposed new productive
zone. If proposal is to preventer program, if an	drill or deepen direction	ally, give pertinent of	lata on subsurfa	ce locations a	nd measure	ed and true vertical depths. Give blowout
signed Thomas	Mugler	TITLI	<u>Petrole</u>	eum Engir	neer	рате 9-1-78
(This space for Fede	eral or State office use)					
nenwim vo			APPROVAL	DATE		
PERMIT NO.	<i>V</i>					
APPROVED BY		TITL	č			DATE
CONDITIONS OF APPROV	'AL, IF ANY :					

oh Frank

Certificate No. 3602

E.V.Echohawk LS

All distances must be from the outer boundaries of the Section Well No. O; erator Dugan Production Corporation Big Field County Unit Letter Section 14 West San Juan 30 North Actual Footage Location of Well: 1760 West 1850 South feet from the Dedicated Acreage: Pool Ground Level Elev. Producing Formation Fruitland - Pictured Cliff 160 Wildcat 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? If answer is "yes," type of consolidation _____ No Yes 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 contoined herein is true and complete to the Thomas A Dugan Position Petroleum Engineer Ďugan Production Corp. 9-1-78 SEC. 3 you this plot was playing from field d of offeg.sNeys made by me or N. ECHO 1850 August 23, 1978 Registered Professional Engineer and/or Land Surveyor

2000

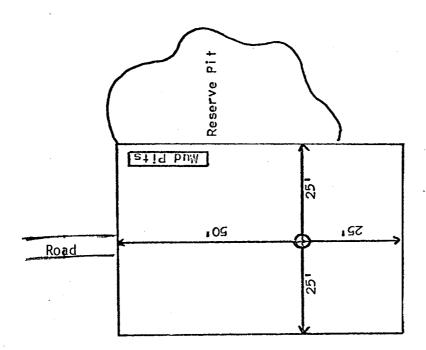
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DUGAN PRODUCTION CORP.

Big Field #4

Proposed Location Layout

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DEVELOPMENT PLAN

DUGAN PRODUCTION CORP.						
Big_Field_#4						
wells are shown on attach						

	Big_Field#4
1.	Existing roads and existing wells are shown on attached plat.
2.	Planned access from existing road approximately 3000' to new location. Will leave natural grass and small vegetation on roadway. Will remove large brush or trees from road. Do not plan to make road grade or bar ditches. Will bottom-out any arroyo we cross and not install culverts.
3.	Location of well: 1850' FSL - 1760' FWL
	Sec 3 T30N R14W
	San Juan County, NM
4.	3 additional well(s) planned on this lease at this time.
5.	Separator and flow line will be located within 50' of wellhead.
6.	Water will be secured from San Juan River or San Juan River plant
7.	Waste materials will be buried on location or in reserve pit.
8.	No permanent camp is planned; trailer house will be used on location while drilling.
9.	Do not plan to build airstrip.
10.	See attached plat for proposed location layout.
11.	A general description of the topography, soil characteristics, geologic features, flora and fauna; other surface-use activities and surface ownership of involved lands, proximity of water, occupied dwellings, archeological, historical or cultural sites can be found in the archeologist's report.
12.	Geologic name of surface formation: Kirtland
13.	Estimated tops of important geologic markers: Kirtland - surface Fruitland - 638' - gas Pictured Cliffs - 1140' - gas
14.	Estimated depths of anticipated water, oil, gas, or other mineral bearing formations which are expected to be encountered:
15.	We do not anticipate to encounter any abnormal pressures or temperatures or any potential hazards such as those associated with hydrogen sulfide.
16.	Will clean up location, fill and level pits, level ruts in road, reseed location and road with Seed Mixture #2 and paint equipment with Sandstone Brown.
17.	Operator's Representative: Thomas A. Dugan Box 234 Farmington, NM 87401
18.	Certification: The following statement must be signed by the lessee's or operator's field representative who is identified in Item #17 of the Plan:
	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 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 Dugan Production Corp. and its contractors and subcontractors in conformity with this Plan and
	the terms and conditions under which it is approved.

Date: 9-1-78

