#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES reve

30-045-33795

	DEPARTMENT	5. lease designati SF-078056	ON AND SERIAL NO.					
		GICAL SURV			<u></u>	<b></b>		
APPLICATION	Y FOR PERMIT	O DRILL, I	DEEPE	N, OR	PLUG I	BACK_	6. IF INDIAN, ALLOT	TEE OR TRIBE NAME
	LL 🖺	DEEPEN [		P	LUG BA	ск 🗆	7. UNIT AGREEMENT	T NAME
b. TYPE OF WELL	AS OTHER			NGLE X	MULTII ZONE	PLE	8. FARM OR LEASE	NAME
WELL W	ELL OTHER		20	1180	BONE		Federal "C"	
Hixon De	velopment Com	nanv					9. WELL NO.	· · · · · · · · · · · · · · · · · · ·
3. ADDRESS OF OPERATOR	veropinom com	- pari					9	
P O Box	2 2810 Farmir	orton New	Mex	ico 87	401		10. FIELD AND POOL	., OR WILDCAT
1. LOCATION OF WELL (R	x 2810, Farmir	in accordance wit	h any S	tate requirer	nents.*)		WAW-Frui	tland-PC Ext.
1750' FN	L, 1850' FWL	- Section 5	5-T25	5N-R12	W _		Section 5,	T25N-R12W
4. DISTANCE IN MILES	AND DIRECTION FROM NEAR	REST TOWN OR POS	T OFFICE	,•	,		12. COUNTY OR PARI	SH   13. STATE
25 miles	south of Farm	ington				-	San Juan	NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to Dearest drig	r .ine, ft.	790'		. OF ACRES I		16	<u>-</u>	
18. DISTANCE FROM PROP TO NEAREST WELL, D				OPOSED DEPT	H		RY OR CABLE TOOLS	
OR APPLIED FOR, ON THE	IS LEASE, FT.		13	325'		Ro	tary	·
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)							WORK WILL START*
6 <b>1</b> 59' GL					October	15, 1979		
23.	F	PROPOSED CASI	IG AND	CEMENTI	NG PROGR	AM	÷.	·
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	T00	SETTING	DEPTH		QUANTITY OF CE	MENT
8-3/4	7''	20#		901			75 sacks	
5''	2-7/8"	6.5#		1325'		2	00 sacks	
	I	1	- 1			1		

It is proposed to drill a 4-3/4" slimhole to test the Pictured Cliffs formation. The hole will be drilled with a portable rotary rig using mud. The well will be evaluated with open hole resistivity and porosity logs prior setting casing.

gue is deshinted

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.

preventer program, a day.				
81GND COLLARS	Petroleum Eng	ineer	August 31,	1979
(This space for Federal or State office use)		D. Broken	The state of the s	
PERMIT NO.	APPBOVAL DATE			
		1		
APPROVED BY	TITLE	SEPI	PATE	
CONDITIONS OF APPROVAL, IF ANY:	•	100		
1 - 1		INF COM	Cok. /	
oh Fruh		OIL CON.	3 /	
In Jan 2	*See Instructions On Reverse Side		The state of the s	
	1 -		See State Co.	
	MMOCC			
	1110000			

# NEW MEXICO DIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Edgar L. Risenhoover,

All distances must be from the outer boundaries of the Section Well No. Leas Federal "C" Hixon Development Company County Hana∈ Section Unit Letter San Juan 25 North 12 West Actual Footage Location of Well: West 1850 line North teet from the 1750 iget from the line and Dedicated Acreage: Pool Producing Formation Ground Level Elev. 160 WAW-Fruitland-PC Ext. Acres Fruitland-Pictured Cliffs 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 rovalty). 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 X No 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and, belief. 1750 Aldrich L. Kuchera Position Petroleum Engineer 1850' Company Hixon Development Compar SF-07805 August 30, 1979 hately series whom he vision, fond ERED LAND August 29, 1979 Registered Professional Engineer and/or Land Surveyor

1000

1500

2000

1980 2310

66C

33C

1320

1550

Application for Permit to Drill Hixon Development Company Federal "C" Well No. 9 1750' FNL, 1850' FWL NW/4 of Section 5, T25N, R12W San Juan County, New Mexico

#### Recap of NTL-6 13-Point Outline is as follows:

- 1. Existing Roads Refer to attached topographic map. The proposed well site is located inside an existing 25 year old oil field. The field has an extensive lease road system tied to State Highway 371 south of Farmington.
- 2. Planned Access Roads Construction of an access road will not be necessary. Per the attached map, an access road already exists to this well site.
- 3. Location of Existing Wells Refer to attached map.
- 4. <u>Location of Tank Batteries, Production Facilities, etc.</u> The proposed well is located within an extensive oil and gas flow-line and water injection system.
- 5. Location and Type of Water Supply Will not be necessary.

  Any water used for workover purposes will be hauled in from a source well in Section 5, or from Farmington.
- 6. Source of Construction Materials None will be used.
- 7. Methods for Handling Waste Disposal Any waste materials incurred while drilling will be buried in the mud pits.
- 8. Ancillary Facilities Will use existing Central Bisti Unit facilities.
- 9. Well Site Layout Refer to plat attached.
- 10. Plans for Restoration of Surface Area in the vicinity of well site is primarily sand. Very little of the well site area will be disturbed.
- 11. Other Information Refer to Archaeological Report to be submitted to USGS.

# 12. Leasee's or Operator's Representative -

Aldrich L. Kuchera

Telephone 325-6984 Office

325-3448 Home

325-1873 Car - Unit #675

13. Certification - See Attached.

Application for Permit to Drill Hixon Development Company Federal "C" Well No. 9 1750' FNL, 1850' FWL NW/4 of Section 5, T25N, R12W San Juan County, New Mexico

#### Other NTL-6 Pertinent Data is as follows:

#### 1. Estimated Log Tops:

Surface Ojo Alamo
Ojo Alamo Surface
Kirtland 100'
Fruitland 680'
Pictured Cliffs1100'
Lewis 1300'

### 2. Estimated depths of water, oil and gas:

Fresh Water - 0-60' (may not be present because the Ojo Alamo outcrops at this location). Surface casing hole drilling in this area using air will dust indicating limited if any fresh water.

Gas Sands - 100' to TD. Gas sands and salt water are dispersed throughout this interval.

#### 3. Weight and type of Mud to be Used -

Surface - 0-90'; drill with air. Should water be encountered an Aquagel/lime slurry will be mixed to a 40-50 sec/gt viscosity.

Production Hole - A Dextrid/Cellex low solids mud or equivalent will be used. Any hardness will be treated with soda ash. Mud weight and drilled solids will be controlled. Mud properties will be as follows:

Mud Weight - 8.4 - 8.8 # / gal Viscosity - 34 - 45 sec/quart Plastic Viscosity - 4 - 8 cps Yield Value - 3-6 #/100 sq. ft. Fluid Loss - 8 - 12 cc's / API pH - 8.3 - 8.5 Solids Content - 5-1/2% maximum Annular Velocity - 120 FPM Application for Permit to Drill Federal "C" Well No. 9
Page 2

Note: Bottom hole pressure gradient is 3.40#/gallon. Fracture gradient is 19.2#/gallon. We do not anticipate any drilling problems.

- 4. Open Hole Logs Induction Electric Survey and Compensated Caliper Gamma Ray Neutron Density.
- 5. <u>Cased Hole Logs</u> Gamma Ray CCL and Cement Bond Log.
- 6. Casing Program Surface casing will be 90' of 7" 20# J-55, 8rd, ST&C, Range 3, ST&C, Smls, New Casing.

Production Casing will be 1325' of 2-7/8" 6.5# J-55, 8rd, EUE, Range 1, Smls, New Casing.

7. Cementing Program - Surface casing will be cemented to surface as follows: (1) break circulation with water (2) pump 75 sacks Class B cement slurry w/2% CaCl (3) Drop wooden cement wiper plug and displace to casing shoe (4) WOC 12 hours.

Production casing will be cemented to surface as follows: (1) break circulation with mud (2) pump 20 bbl C-100 chemical wash (3) mix and pump 185 cubic feet (150 sacks) Litepoz 3 cement slurry weighing 13.5#/gal and containing 2% gel, 2% CaCl, 1/4#/sack D-29 cellophane, 10#/sack Gilsonite (4) follow with 59 cubic feet Class B cement slurry with 2% CaCl (5) flush lines, drop Omega plug and displace plug with acetic acid and 2% KCl water (6) latch in plug with 2000 psi and WOC 48 hours or to a compressive strength of 1000 psi.

- 8. <u>Drilling Hazards</u> are minimal in this area. High pressure zones, high temperatures, sour gas or other abnormal deviations are not expected.
- 9. <u>Duration of Drilling Activity</u> will be about 15 days from spud date to completion.
- 10. Pressure Control Equipment Will use a standard single ram BOP with stripperhead. This will allow for positive pressure control with pipe in or out of hole.

Application for Permit to Drill Federal "C" Well No. 9 Page 3

- 11. Casing Pressure Testing Surface casing will be tested for 30 minutes to 500 psi before drilling out shoe. Production casing will be tested to 2000 psi after Omega plug latches in both surface and production casing will be factory tested to API specification and will be new.
- 12. Plugging & Abandoning In the event the well is a dryhole, it will be plugged with prior USGS approval and the drill site restored in accordance with pertinent regulations.

# HIXON DEVELOPMENT COMPANY

P.O. BOX 2810
FARMINGTON, NEW MEXICO 87401

#### 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 performed by Hixon Development Company and its contractors and subcontractors in conformity with this plan and the terms and conditions which it is approved.

August 28, 1979

Aldrich L. Kuchera Vice President

Subscribed and Sworn to before me this 28th day of August 1979.

My commission expires 7-25-83.

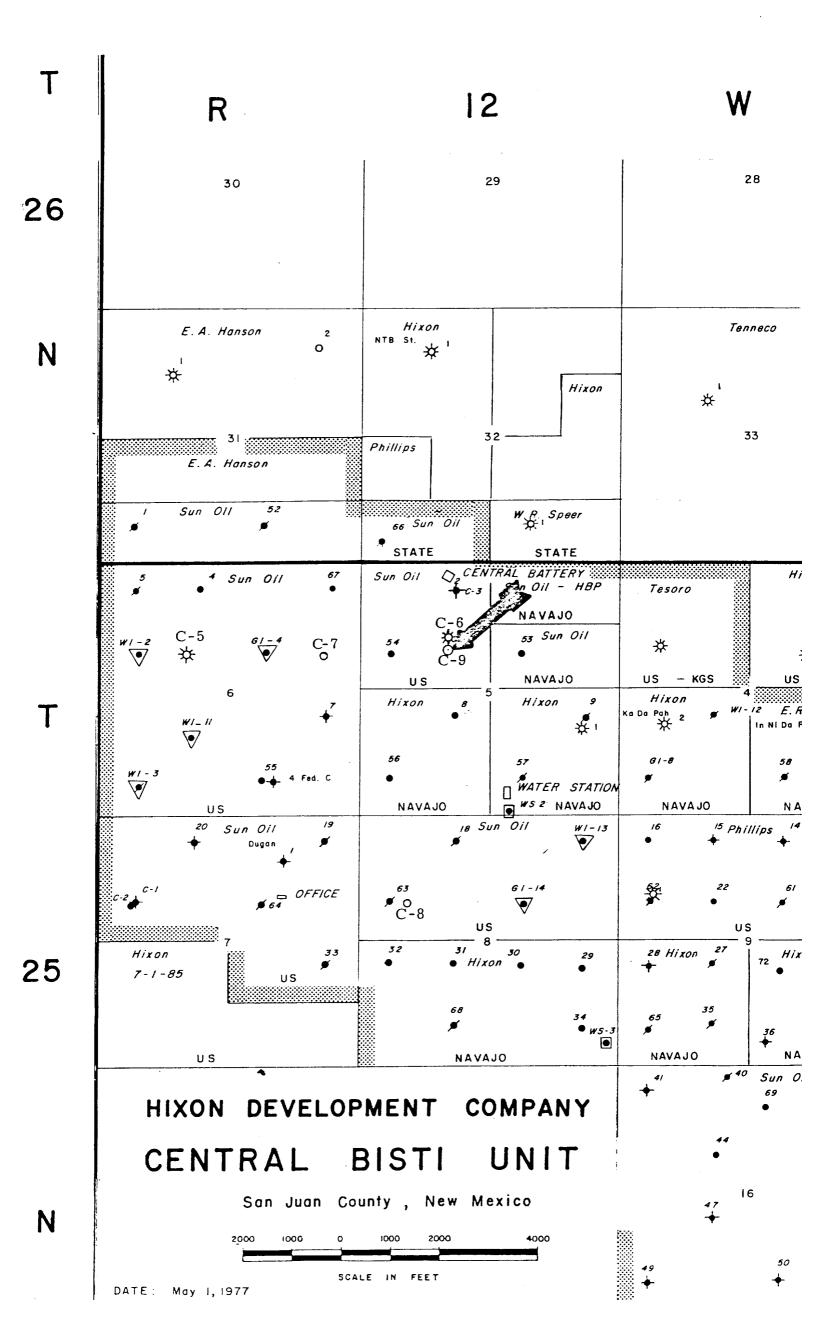
Cindy Duncan - Notary Public

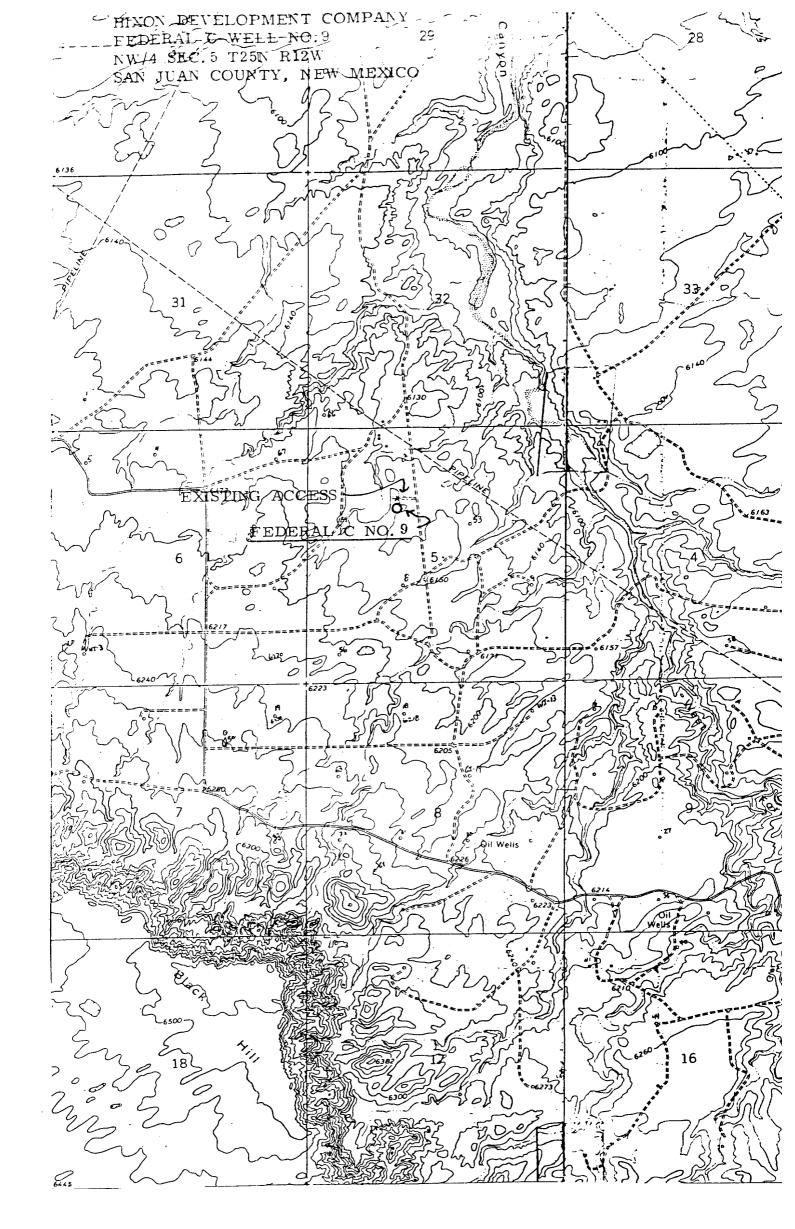
1012

OFFICIAL SEAL' CINDY DUNGAN

NOTA TO FIND TO FROM MEXICO Notice Dond Fill I with Secretary of State

My Commission Expires: 7-25-83

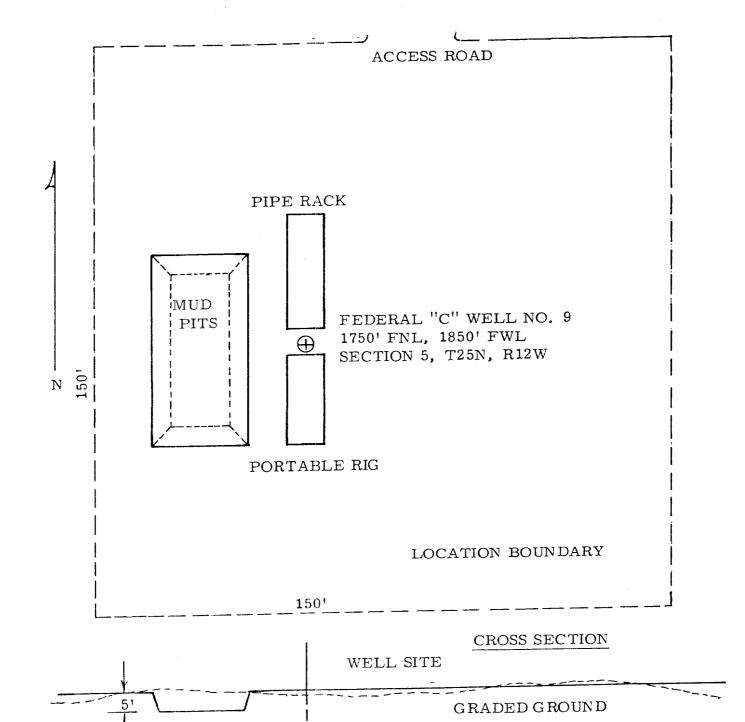




PROJECT	FEDERAL "C" NO. 9	
PURPOSE	DRILLING LOCATION PLAT	

JOB NO.	
SHEET	OF
OUTOVED BY	

COMPUTED	BY		
COMPUTED	D1	 	

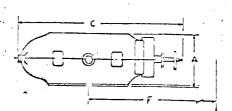


ORIGINAL GROUND

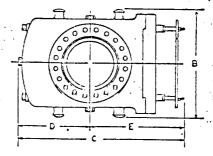
SCALE 1" = 25'

MAXIMUM CUT WILL BE 1'

# DIMENSIONAL AND ENGINEERING DATA ON SHAFFER BLOWOUT PREVENTERS TYPE 45 MECHANICAL SINGLE BLOWOUT PREVENTER



Dimensional Elevation - Shaller Type 45 Mechanical Single Blowert Preventer



Dimensional Plan - Shaller Type 45 Mechanical Single Blowout Preventa

Size	Max. Service Prensure Rating, pal	Test Premure, pai	Vertical Bore	Approx. Weight, Pounds.	Ram Size	A Height	B Width	C	D Center To Rear	E Center To Front	p Max. Distance Needed To Change Rama
6*	3,000	6,000	7 14.0	1,500	C.S.O. Thru 5' O.D.	14"	2735"	34"	1335"	2015*	411/5"
8"	3,000	6,000	9*	2.050	C.S.O. Thru 7" O.D.	15%*	2935"	40"	16%*	231/4"	40%*
10"	3,000	6,000	11"	2,580	C.S.O. Thru 81/2" O.D.	10%*	32"	42%*	18%*	2416"	01 K.
12"	3,000	6,000	1257	3,345	C.S.O. Thru 103/ O.D.	17%*	331/4"	47%*	21"	20%*	60%*
16"	2.000	. 3.000	1514"	4.290	C.S.O. Thru 13%" O.D.	17*	37*	515/*	22%*	2014"	6014.