SUBMIT IN TRIPLICATE*

DISTRICT ENGINEER

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR

		NT OF THE			erse side)	30-04 5. LEASE DESIGNATION	15-24271	
	GEO	NM 25447						
APPLICATI	on for permi	TO DRILL,	DEEP	N, OR PLU	G BACK	6. IF INDIAN, ALLOTTE	SE OR TRIBE NAME	
	DRILL X	DEEPEN		PLUG	BACK 🗌	7. UNIT AGREEMENT	NAME	
WELL	GAS WELL X OTHER				ULTIPLE [8. FARM OR LEASE NA	ME	
2. NAME OF OPERATOR						Hixon Federa	7 19	
HIXON 3. ADDRESS OF OPERAT	Development Cor	ipany				9. WELL NO.		
						1		
4. LOCATION OF WELL At surface	Box 2810, Farming (Report location clearly)	Pictured Cliffs						
790' At proposed prod.	FNL, 790' FEL, S	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA						
14. DISTANCE IN MILI	S AND DIRECTION FROM N	PARES BOWN OF TO	OM CHRIST			Section 19, T25N, R12W		
	es south of Far		ST OFFICE	•		12. COUNTY OR PARISH San Juan	1	
15. DISTANCE FROM PE	OPOSED*	mingcon	16. No	OF ACRES IN LEAS	E 17 NO	OF ACRES ASSIGNED	New Mexico	
LOCATION TO NEAR PROPERTY OR LEAS	EST E LINE, FT. drlg. unit line, if any)		1	319.15		HIS WELL 160		
18. DISTANCE FROM P.	ROPOSED LOCATION*	· · · · · · · · · · · · · · · · · · ·		POSED DEPTH	20. ROTA	BY OR CABLE TOOLS	·	
OR APPLIED FOR, ON	., DRILLING, COMPLETED, THIS LEASE, FT.			1460'		Rotary		
	whether DF, RT, GR, etc.)	***************************************	'			22. APPROX. DATE WO		
6438'	GLE					April 5, 19	980	
		PROPOSED CASI	NG AND	CEMENTING PRO	OGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	TOOT	SETTING DEPTH		QUANTITY OF CEMEN		
8-3/4" 5"		23#		90'		60 sacks CIRC		
<u> </u>	2-7/8"	6.5#		1460'		175 sacks CIRC	ULATE	
N ABOVE SPACE DESCRI	planned to dril e attached. Ga NAP: NAP: S. GEOLOGICAL SHEE FARMING CR N Be PROPOSED PROGRAM: He of drill or deepon direction thy.	proposal is to deep	well	nas not beer	n dedicate	APR 31 OIL CON. C DIST. 3	Divi.	
SIGNED(This space for Fee	deral or State office use)	TIT	P	etroleum En	gineer	DATE 2-25-8	0	
	or source outow use)			,		TOUTED TO	4	
PERMIT NO.			A1	PPBOVAL DATE	APE	ROVED	:	
APPROVED BY		TIT	LE .	,	AS A	MENDED		
CONDITIONS OF APPRO			<u></u>		Jam	W & Simo		
	ah 3nh				JAN	TES F. SIMS	3	

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C+102 Supersedes C+128 Elfective 14-65

		All distances must be	from the outer boundaries of	the Section.	
Operator			Leose	. 10	Well No.
	opment Compai		Hixon Federa		1
Unit Letter	Section 19	Township 25 North	Range 12 West	County San Juan	
Actual Footage Loc			12. 11001	Jan Juan	
790	feet from the	North line and	790	tom the East	
Ground Level Elev.	Producing Fo		Pool	1 from the	line Dedicaled Acreage:
6438	1	red Cliffs	WAW-Fruitland-	PC CX T	150 -
					160 Acres
2. If more th interest an	an one lease is d royalty).	dedicated to the we		ntify the ownership tl	nercof (both as to working all owners been consoli-
dated by co	ommunitization, t	initization, force-pool	ing. etc?	ne ownership lea	
this form if No allowab	s "no;" list the necessary.)le will be assigne	owners and tract desc	criptions which have ac	onsolidated (by com	nunitization, unitization, approved by the Commis-
	RECEIVE WAR 1 1 U. 9. GEOLOGICAL ARMINGTON,		790'	roined here best of my Name Aldrich Position Petroleu Company Hixon De Date March 4,	MALLETTITEIZE
-				I hereby (2) shown on the notes of ac under my su is true and knowledge a N. O Satu Surveyed March 4. Registered Pro and/or Land Sa	plot was plotted from field to be surveyed and the same of the sam
330 660 90	1320 1650 1980	2310 2640 2000	1500 1000 800	1 1	5979 Risenhoover, L.S.

APPLICATION FOR PERMIT TO DRILL Hixon Development Company Hixon Federal 19 Well No. 1 790' FNL, 790' FEL, Section 19, T25N, R12W San Juan County, New Mexico

NTL-6 13 Point Requirement Outline is as follows:

- 1. Existing Roads Refer to the attached topographic map. The location is adjacent to the Hixon Development Company operated Central Bisti Unit oil field. Existing well location roads in the vicinity of the Hixon Federal 19 No. 1 location are maintained by company construction vehicles.
- 2. Planned Access Roads Refer to the attached maps.
- 3. <u>Location of Existing Wells</u> A 1-mile radius map showing offset wells is attached.
- 4. <u>Location of Existing and/or Proposed Facilities</u> The proposed well location is situated inside a developed oil and gas field containing an extensive system of oil and gas gathering lines, water injection lines, disposal lines, powerlines, fuel gas lines, etc.

Proposed facilities for the Hixon Federal 19 No. 1 well will consist of a well head assembly, meter house and an EPNG pipeline riser, i.e. a standard shallow gas well hookup. All lines will be buried 4' deep. The pipeline riser, well head, meter run and meter building will all be located on the proposed well pad schematic. The facility will not pose any problems for any livestock.

Restoration of any disturbed areas no longer needed for operations after drilling will be graded, contoured and raked.

- 5. <u>Location and Type of Water Supply</u> Water fro drilling will be obtained from the NIIP.
- 6. Source of Construction Materials Materials for the drilling pad will be obtained from the proposed well location, i.e. none will be hauled in.
- 7. Methods for Handling Waste Disposal Any waste material incurred while drilling will be buried in the mud pits, i.e. 4' deep. Cuttings, drilling fluid, well circulation and stimulation fluids (if any) will be contained in the mud pits. The mud pits will be allowed to dehydrate and will be filled and contoured per regulations. Well site will be properly cleaned up after rigging down rotary tools.
- 8. <u>Ancillary Facilities</u> Central Bisti Lower Gallup Unit existing facilities will be used.
- 9. Well Site Layout Refer to attached plat.
- 10. Plans for Restoration of Surface The mud pits will be back filled,

Application for Permit to Drill Page 2

area leveled and contoured, raked and waste materials disposed of by burying 4' deep. Revegetation will not be carried out because seeding efforts in the area have been unsuccessful and a waste of money due to lack of moisture and blow sand conditions.

- 11. Other Information Refer to Archeological Report to be submitted.
- 12. Operator's Representative -

Aldrich L. Kuchera Hixon Development Company Petroleum Center Building Suite 101 501 Airport Drive Farmington, New Mexico 87401

Office (505) 325 - 6984 Home (505) 325 - 3448

13. <u>Certification</u> - See Attached.

APPLICATION FOR PERMIT TO DRILL Hixon Development Company Hixon Federal 19 Well No. 1 790' FNL, 790' FEL, Section 19, T25N, R12W San Juan County, New Mexico

Other NTL-6 Pertinent Data is as follows:

1. <u>Estimated Log Tops -</u>

Ojo Alamo Surface Farmington 328' Fruitland 1262' Pictured Cliffs 1285'

2. Estimated Depths of Water, Oil and Gas -

Fresh Water - Water well drilling in this area show the Ojo Alamo to be dry.

 $\frac{\text{Gas Sands}}{\text{are dispersed from about 328'}}$ - TD. Gas sands and 16,800 ppm NaCl water

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/qt viscosity.

<u>Production Hole</u> - 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 #/gallon 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

 $\underline{\text{Note}}\colon$ Bottom hole pressure gradient is 3.40#/gallon. Fracture Gradient is 19.2#/gallon. We do not anticipate any drilling problems.

- 4. <u>Open Hole Logs</u> Induction Electric Survey and Caliper Gamma Ray Compensated Neutron-Density.
- 5. <u>Cased Hole Logs</u> Gamma Ray CCL and Cement Bond Log.
- 6. <u>Casing Program</u> Surface casing will be 90' 7" 23# J-55, 8rd, ST&C Range 3, ST&C, Smls, New casing.

Production casing will be 1460' 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 60 sacks (500% excess Class B cement slurry with 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 175 sacks Class B cement slurry with 2% CaCl (4) flush lines, drop Omega plug and displace plug with acetic acid and 2% KCl water (5) 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. <u>Pressure Control Equipment</u> Will be either of the two attached BOP schematics.
- 11. <u>Casing Pressure Testing</u> 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 specifications and will be new.
- 12. 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 sub contractors in conformity with this plan and the terms and conditions which it is approved.

Aldrich L. Kuchera
Vice President

Date

Subscribed, Sworn to and Acknowledged before me this 25th day of February, 1980.

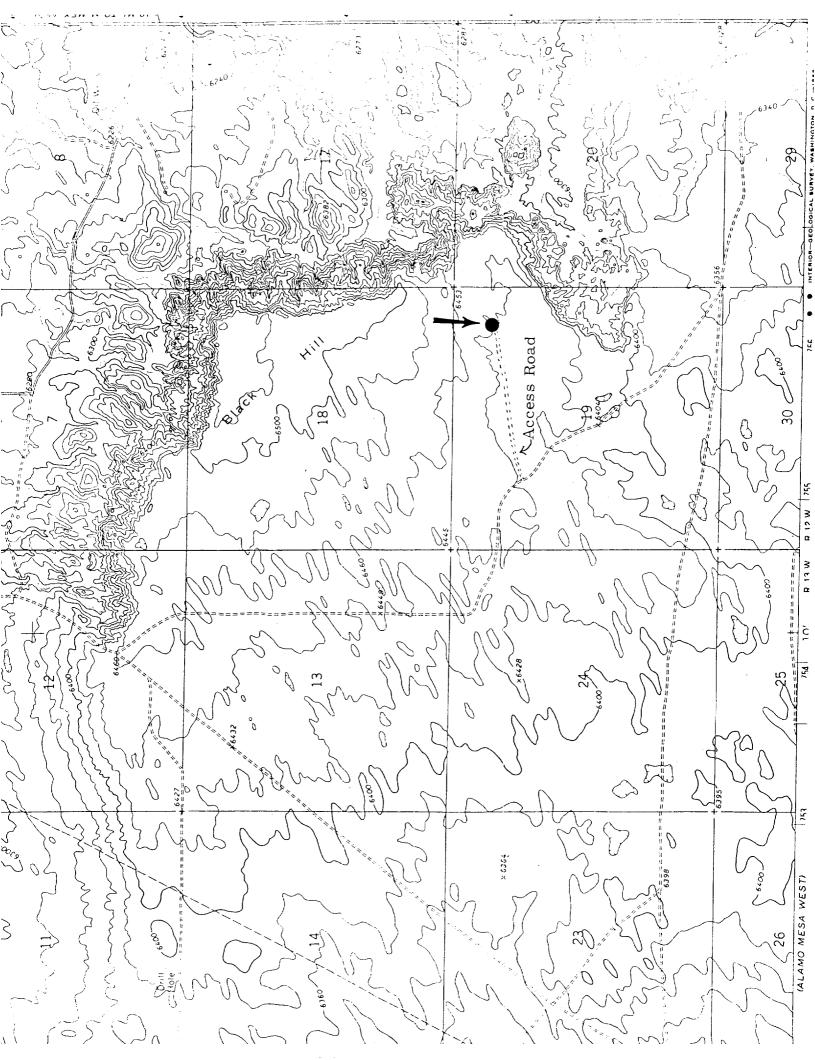
My Commission Expires: 7-25-83

Notary Public - Cindy Duncan

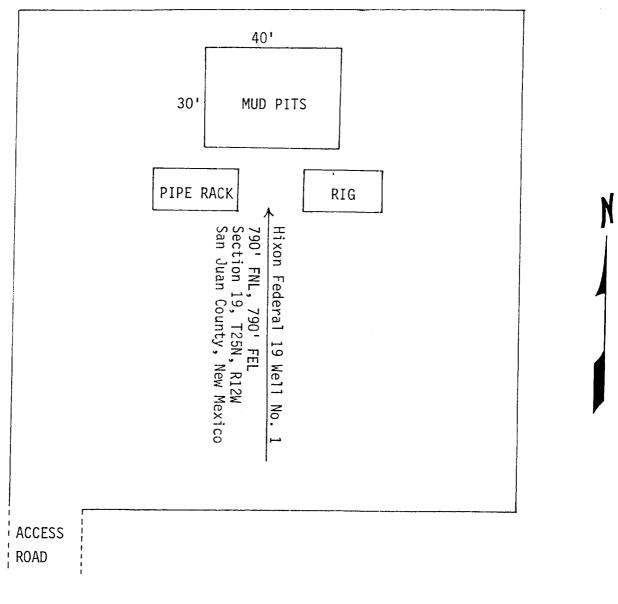


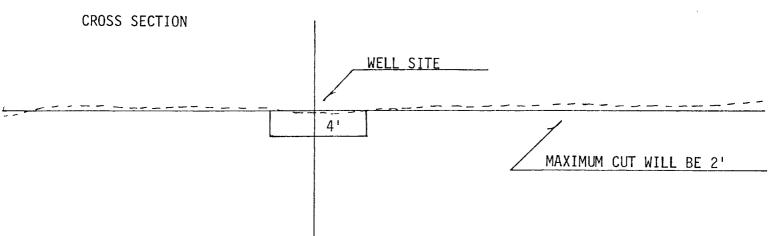
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My Commission Expires: 7-25-83



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TESTING PROCEDURES

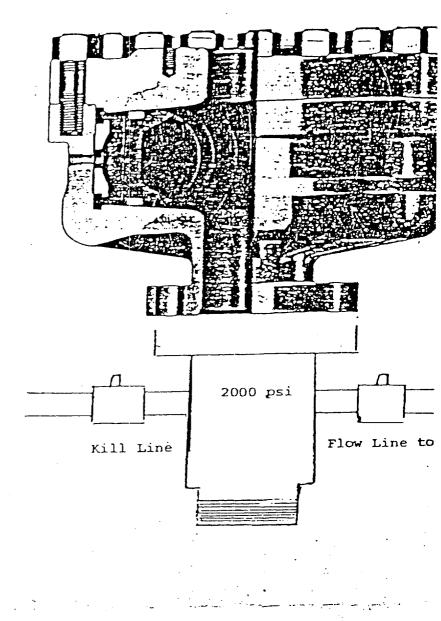
REGAN BLOWOUT PREVENTERS

Install BOF after setting surface pipe and pressure test to 1000 psi after drilling out from under surface pipe.

The Regan Torus Blowout Preventer is used primarily on production and workover rigs for well control up to 3000 PSI working pressure

DISIGN FEATURES

- a. The Torus Preventer is designed for minimum height to facilitate its use with production and workover rigs.
- b. The rubber packer will conform to any object in the well bore. Sealing ability is not affected by minor damage to the inner bore.
- c. The packer will seal on open hole at full working pressure.
- d. The dual packer design increases the reliability of the preventer since the outer rubber is never exposed to the well bore. Under ordinary service, the outer packer is rarely replaced.



TORUS BLOWOUT PREVENTER

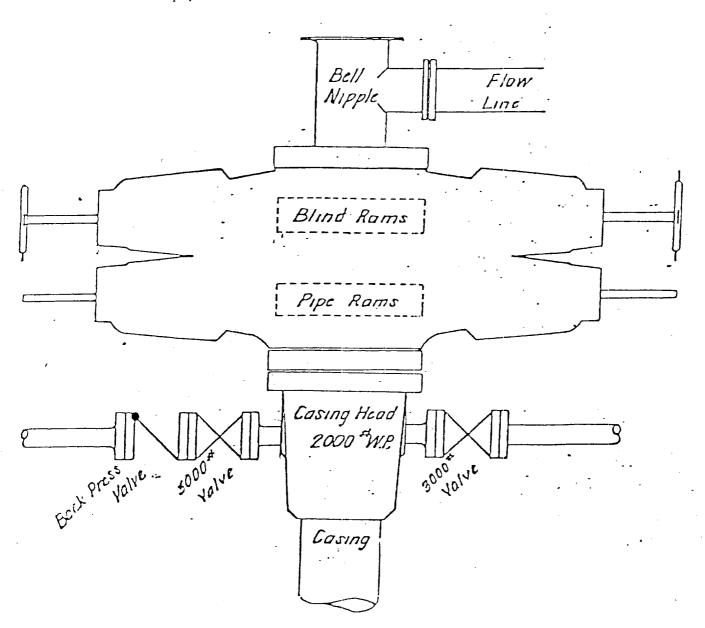
SPECIFICATIONS

		ים	MENSIONS (I	n.)	Weight (ib.)	£nd Flanges (1)	R/RX Ring Greaves	Side Dutlet
Nominal Sizo	Pressure (psl)	Dutside .	Thru Bore	Overail Height				
6.	3000 6000	27 28%	71%s 71%s	19% 21%	1360 1950	Nom. & Nom. 6	45 45	Name Z LP.

SCHEMATIC DIAGRAM

TESTING PROCEDURES

Install BOP after setting surface pipe and pressure test to 1000 psi after drilling out from under surface pipe.



Shaffer Double Gate Blow Out Preventer 3000 # W.P., 6000 Test, Type E