SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved.
Rudget Bureau No. 42-R1425

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Dauget Duteau No. 42-M1420.
30 -095-3366 5. LEASE DESIGNATION AND SERIAL NO.
5. LEASE DESIGNATION AND SERIAL NO.
NM-25445

	0202	J Q 1 D 1 1 1 2 1 1 1 1 1 1					11111-23443	
APPLICATIO	N FOR PERMIT	TO DRILL, D	DEEPE	N, OR PL	.UG B	ACK	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
. TYPE OF WORK							7. UNIT AGREEMENT	AME
D) D. TYPE OF WELL	RILL 🖾	DEEPEN [PLU	G BAC	ж 🗀		
OIL KT	CAS OTHER		BIN ZON	E V	MULTIP	LE 🗌	S. FARM OR LEASE NA	
NAME OF OPERATOR				······································	•		Black Hill M	lesa
	evelopment Com	pany					9. WELL NO.	
ADDRESS OF OPERATOR							1	
P,O. Box	x 2810, Farmingt	on, NM 874	01	ata regulremen	to #1		10. FIELD AND POOL,	
At surface	Report location clearly at	id in accordance wit	n any se	ate requiremen	LB. ')		Bisti Lowe	
1650' FNL, 1650' FEL; Section 17-T25N-R12W					AND SURVEY OR A	REA		
Throm. Von IV MITTE	AND DIRECTION FROM NE	ADPER TOWN OR BOS	P OFFICE				Sec. 17-T25	
• • •			. 077102				San Juan	NM
. DISTANCE PROM PRO		armington	16. NO.	OF ACRES IN	LEASE		OF ACRES ASSIGNED	İ TATAT
PROPERTY OR LEASE	LINE, FT.			360 '		TO THIS WELL 40		
DISTANCE FROM PRO	rlg. unit line, if any) DPOSED LOCATION*		19. PRO	POSED DEPTH		20. ROTA	ARY OR CABLE TOOLS	
OR APPLIED FOR, ON I	DRILLING, COMPLETED, THIS LEASE, FT.		4	963'		ro	rotary	
	hether DF, RT, GR, etc.)						22. APPROX. DATE W	
6264' GI	L						December	4th, 197
•		PROPOSED CASIN	G AND	CEMENTING	PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	oor	SETTING DE	PTH		QUANTITY OF CEME	NT
12-1/4"	8-5/8"	24#		200'		200 sacks		
7=7/8"	4-1/2"	9.5#		4963	•	 	300 sacks	
1578 (- AOV 8 1978) 62 5074 COM								
ne. If proposal is t eventer program, if a	. 1 1-	f proposal is to deep nally, give pertinent	pen or pl	ng back, give de subsurface los	cations as	d measure	ed and true vertical dept	ed new product hs. Give blowd
ревит но.			<u> </u>	APPROVAL DATE				
			*				:	•
COUDITIONS OF YEAR PERSONED BY	ok Sreh	TH	'L#	,		- %	DATE	
Wold Co	4 / 3 g	*See Instru	ctions (On Reverse :	Side		A	

All distances must be from the outer boundaries of the Section.

Hixon Development Company (NM-25445) Black Hill Mesa #1				are outer soundaries of		
Desire later Control	Operator	company Company		, ,	n1 1 11-11/14.	
Actual Frotespe Lovening of Wellt 1650 Total Tenderspe Lovening of Wellt 1650 Total time North Total time To	Unit Letter		· · · · · · · · · · · · · · · · · · ·			-iiiii mesa #1
Ground Level Lives from the North tane and 1650 tool from the East trom Ground Level Level Fromatons Fromatons 6254 Lower Gallup Birst Lower Gallup Ado Acres 1. Outline the acreage dedicated to the subject well by colored pencil or bachure 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? Yes 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 Commission. CERTIFICATION 1 hereby certify that the information contents herein is true and complete to the best of my translating and blind. Addrich L. Kuchera Petroleum Engineer October 31st, 1978 Thereby certify that the information contents herein is true and complete to the best of my translating and blind. Addrich L. Kuchera Petroleum Engineer October 31st, 1978 Thereby certify that the information contents herein is true and complete to the best of my translation and a discrept petroleum Engineer October 31st, 1978 Thereby certification of the discrept formation and best of the more and complete to the best of my translation. CERTIFICATION 1 hereby certification and complete to the more and best of the more and best of the more and tract description and the more and tract description and the more and tract description and the more and tract descriptions which have been consolidated. (Use rev		17	1	1 -	1	-
Count Level Live. Perdacing Formation 6264 Lower Gallup Bisti Lower Gallup Dedicated Accessed 6264 Lower Gallup Bisti Lower Gallup 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? Yes No If answer is "yes," type of consolidation one owner lease 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 approach by the Commission. CERTIFICATION 1650' Lease #NM-25445 Lease #NM-25445 Lease #NM-25445 Dette Surveyed October 31st, 1978 Dette Surveyed October 71 1978 Registered Professional Engineer only of the description of the professional Engineer only	-		<u> </u>			
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? Yes No If answer is "yes," type of consolidation one owner lease 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 havely certify that the information convoluted herein is true and complete to the bear of my homestage prod being. Addrich L. Kuchera Pettroleum Engineer Company Hixon Development Co. Date October 31st, 1978 Certificate No. 3579 Extra Surveyer Lease "NM-25445 Cettificate No. 3579 Extra Surveyer Amount of the plat below.					t trom 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 royally). 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? Yes No If answer is "yes," type of consolidation one owner lease 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 is list. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and is list. Company Hixon Development Co. Date October 31st, 1978 Restatered Proteasional Engineer October 27, 1978 Restatered Proteasional Engineer and or Land Surveyed October 27, 1978 Restatered Proteasional Engineer and or Land Surveyed Certification in. 5919	•				· · · · · · · · · · · · · · · · · · ·	40 <
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? Yes X No If answer is "yes," type of consolidation	1. Outline th	e acreage dedica	ted to the subject well	by colored pencil o	r hachure marks on the p	lat below,
Yes No If answer is "yes," type of consolidation One Owner lease						
Jf 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. Lease #NM-23445 Sec. 17 Certification of the descriptions which have actually been consolidated. (Use reverse side of this form in trice and complete to the best of my knowledge and belief. Lease #NM-23445 Sec. 17 S						
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 by lief. Aldrich L. Kuchera Petroleum Engineer Company Hixon Development Co. Date October 31st, 1978 Sec. 17 Sec. 17 Date Surveyed on the state of my state of the state of my state of the state of my sta	Yes	X No If an	iswer is "yes," type of co	onsolidation	one owner lease	
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 third. Addrich L. Kuchera Position Petroleum Engineer Company Hixon Development Co. Date October 31st, 1978 Sec. 17 Sec. 17 I hereby certify that the information contained herein is true and complete to the best of my knowledge and third. I have been a finite of the company of the same of the contained herein is true and for the same i	this form i	f necessary.)				
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Lease #NM-25445 Date Surveyed	forced-pool	•			•	
toined herein is true and complete to the best of my knowledge and the lief. Aldrich L. Kuchera Position Petroleum Engineer Company Hixon Development Co. Date October 31st, 1978 Sec. 17 Sec. 17 Sec. 17 Date Surveyed on the best of the same is true and complete to the best of my knowledge and the lief. Thereby the lief of the same is true and complete to the best of the same is true and surveyed of the same is true and surveyed. Date Surveyed October 27, 1978 Registered Professional Engineer and/or Land Surveyor Land Albandown Certificate to. 5979]	<u> </u>	CE	ERTIFICATION
toined herein is true and complete to the best of my knowledge and the lief. Aldrich L. Kuchera Position Petroleum Engineer Company Hixon Development Co. Date October 31st, 1978 Sec. 17 Sec. 17 Sec. 17 Date Surveyed on the best of the same is true and complete to the best of my knowledge and the lief. Thereby the lief of the same is true and complete to the best of the same is true and surveyed of the same is true and surveyed. Date Surveyed October 27, 1978 Registered Professional Engineer and/or Land Surveyor Land Albandown Certificate to. 5979		! 	•		I hambu aanti	for that the information con-
Lease #NM-25445 Lease #NM-25445 Lease #NM-25445 Lease #NM-25445 Sec. 17 Sec. 17 Date October 31st, 1978 I herebysically with the sell-position shown of Design the day and the design of the past of the pa		i	1		4 1	
Aldrich L. Kuchera Position Petroleum Engineer Company Hixon Development Co. Date October 31st, 1978 I hereby and higher was placed from the language of the process of th		1	1	5501	best of my kno	owledge find belief.
Lease #NM-25445 Lease #NM-25445 Sec. 17 Sec. 17 Lease #NM-25445 Sec. 17 Date October 31st, 1978 Petroleum Engineer Company Hixon Development Co. Date October 31st, 1978 Phereby and the first of the present of the prese			. 16	1	Cleric	1 duralu
Lease #NM-25445 Petroleum Engineer Company Hixon Development Co. Date October 31st, 1978 RISEN I hereby confine the form field notes of action shown on the players of the form of under my surgery aton, and that the same is true and surgery aton. One of the players of the form of the same is true and surgery aton. Date Surveyed October 27, 1978 Registered Professional Engineer and/or Land Surveyor Land a Registered Professional Engineer and/or Land Surveyor Land a Registered Professional Engineer and/or Land Surveyor	 	+			Aldri	ch L. Kuchera
Lease #NM-25445 Company Hixon Development Co. Date October 31st, 1978 RISE I hereby continue the second shown on the sec		1	•	1650	' ' '	laum Enginean
Hixon Development Co. Date October 31st, 1978 RISENTAL RISENTAL AND SHOWN OF THE AND SHO			Lease #N	M-25445		leum Engineer
October 31st, 1978 Sec. 17 I hereby configuration, RISEN I hereby configuration well-boston shown and higher was harded to a field notes a action supervision, and hat the same is true and source the best of my knowledge and bost so my knowledg		į	i			Development Co.
I hereby condition that the well-contion shown on the plan as provided some field notes a condition, and find the same is true and sorrect the best of my knowledge and best softmy knowledge and best s			1	8 2	* i	er 31st 1978
shown on the play was profed trops field notes if actual surveys profed trops field notes if actual surveys profed trops fire or under my surfervision, and hat the same is true and entre best of my knowledge and belief to the best of my knowledge and b		i	Sec. 17			Milimine.
shown on the play was profed trops field notes if actual surveys profed trops field notes if actual surveys profed trops fire or under my surfervision, and hat the same is true and entre best of my knowledge and belief to the best of my knowledge and b	1	1			Juni	R L. RISEN
notes a actual surveys, node by me-or under my supervision, and that he same is true and operated he best of my knowledge and best fishers. Only a and best fishers. October 27, 1978 Registered Professional Engineer and/or Land Surveyor Edda A. Regulation.		t L	•			
is true and opried the best of my knowledge and belighted to the best of my knowledge and belighted the best of my knowledge and beligh		į		1		N/ 193742
Date Surveyed October 27, 1978 Registered Professional Engineer and/or Land Surveyor Certificate No. 5979		ŀ				
Date Surveyed October 27, 1978 Registered Professional Engineer and/or Land Surveyor Certificate No. 5979		1			knowledge and	belief
October 27, 1978 Registered Professional Engineer and/or Land Surveyor Edga L. Rusenhover Certificate No. 5979	 	+		Land Com Towns and	-\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ONA J GHELL LAND
October 27, 1978 Registered Professional Engineer and/or Land Surveyor Edga L. Rusenhover Certificate No. 5979		1		The state of the s	Data Surveyed	-riinta)v
and/or Land Surveyor Edga L. Rusenhover Certificate No. 5979		i		1	Date Surveyed	
Gettile ate No. 5979		.		i I		
Settlectite No. 3979		1		l · · · · · · · · · · · · · · · · · · ·		20
					Certificate No.	J313

Application for Permit to Drill
Hixon Development Company
Black Hill Mesa Well No. 1
Bisti Lower Gallup Field
SW 1/4 of NE 1/4 Section 17-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 flowline and water injection system.
- 5. <u>Location and Type of Water Supply</u> Will not be necessary. Any water used for workover purposes will be hauled in from a source well in Section 5, or else from Farmington.
- 6. Source of Construction Materials None will be used.
- 7. <u>Methods of Handling Waste Disposal</u> Any waste material 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.
- 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 Unit #675 Car Telephone

13. See Attached

Application for Permit to Drill
Hixon Development Company
Black Hill Mesa Well No. 1
Bisti Lower Gallup Field
SW 1/4 of NE 1/4, Section 17-T25N-R12W
San Juan County, New Mexico

Other NTL-6 pertinent data is as follows:

1. Estimated Log Tops:

Animas	Surface
Ojo Alamo	731
Pictured Cliffs	1173'
Lewis	1313'
Point Lookout	3603'
Mancos	3753'
Gallup	4678'
Lower Gallup	4763'

2. Estimated depths of water, oil and gas:

Fresh Water	73 '-173'
Gas	1173'-1193'
Oil and Gas	4678'-TD

- 3. Weight and type of mud to be used 9.0-9.3#/gallon mud from below surface with low fluid loss-additives used across permeable zones.
- 4. Open hole logs to be used:

Induction Electric Compensated Neutron-Density

- 5. Pressure control equipment will be a 10" Shaffer 3000 WP hydraulic BOP stack per the attached inventory sheet. Surface casing will be tested to 750 psi for 30 minutes prior drilling out cement. Production casing will be tested to 1000 psi for 30 minutes prior perforating.
- 6. On the basis of offset drilling data we do not foresee any drilling hazards such as high pressure gas zones, high temperatures, sour gas or other abnormal deviations.
- 7. Surface 8-5/8" 24# J-55 ST&C and production 4-1/2" 9.5# J-55 ST&C casing will be new and tested at the factory. Regular Class B cement will be used for the surface casing. Production casing will be cemented with Class B cement with 10# gilsonite per sack and 2% CaCl.
- 8. Duration of drilling activity from spud date to completion is expected to be about 15 days.

Application for Permit to Drill Hixon Development Company Black Hill Mesa Well No. 1 Bisti Lower Gallup Field SW 1/4 of NE 1/4, Section 17-T25N-R12W San Juan County, New Mexico

9. In the event the well is a dry hole it will be plugged with prior USGS approval and the drill site restored.

HIXON DEVELOPMENT COMPANY

P.O. BOX 2810 FARMINGTON, NEW MEXICO 87401 October 31, 1978

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspectied 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 under which it is approved.

10/31/78

Aldrich L. Kuchera Production Manager and Petroleum Engineer

ALK:dl







