SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

1	υ.	PEYSE	DESIGNATI	Çr. V	AMD	San	1.11,	4117.	
		Cor	itract	9	3			.	

APPLICAT	ION FO	D DEBYYIL I	() () () () () () ()						
a. TYPE OF WORK							Jicarilla Agache		
1	DRILL X		DEEPEN [PLUG BAC	-K L_			
b. Type of Well	GAS X	1		818 203	NGLE MULTIP	LE [8, FARM OR LEASE NAME		
WELL WELL X OTHER 2. NAME OF OPERATOR							Jicarilla_93		
Northweet	Pinelin	<u>e Corporat</u> i	on				9. WELL NO.		
3. ADDRESS OF OPER	e our porte.					88			
P.O. Box	mington, Ne	ew Mexico	8740)]		10. FIELD AND FOOL, OR WILDCAT			
4. LOCATION OF WEL	cation clearly and	in accordance wit	th any S	tate requirements.*)		_Gavilan-Pictured Clif			
	45' FSL	& 800' FEL					11. SEC., T., R., M., OR ELF. AND SURVEY OR AREA		
At proposed pro	d, zone								
As abo	ve			WALLY STREET			Sec. 32, T27N, R3W 12. COUNTY OF PARISH 13. STATE		
14. DISTANCE IN M	HES AND DIR	ECTION FROM NEAD	REST TOWN OR FOS	T OFFICE	• •				
				1 16 No	OF ACRES IN LEASE	1 17 NO.	Rio Arriba N.M. OF ACRES ASSIGNED		
15. DISTANCE FROM LOCATION TO N	EAREST		•	10. 30			THIS WELL		
PROPERTY OR L. (Also to neare	est drlg, unit l	line, if any)	800 '	16	NA	- OA - 10000	ROTARY OR CABLE TOOLS		
18. DISTANCE FROM	TELL, DRILLING	, COMPLETED,	***	19. PE	OPOSED DEPTH				
OR APPLIED FOR,	ON THIS LEASE	e, Fr.	NA	<u> </u>	4150	I R	Rotary 22. APPROX. DATE WORK WILL STA		
21. ELEVATE : 3 (She							Sept. 10, 1977		
		71.74 GR					Sept. 10, 1777		
23.		1	PROPOSED CASI	NG ANI	CEMENTING PROGR	AM			
		SIZE OF CASING WEIGHT PER		OOT SETTING DEPTH		1	QUANTITY OF CEMENT		
SIZE OF HOLE	E S				i				
12 1/4"		8 5/8"	24#		120		85sks		
	Selecti A BOP v	8 5/8" 2 7/8" ively perfo	24# 6.4# rate & stirtalled afte	mulate	4150 e the Pictured e surface casi	Cliffs	110 sks		
12 1/4" 6 3/4"	Selecti A BOP v All sub The SE	8 5/8" 2 7/8" ively perfowill be insequent wo /4 of Section	rate & stintalled afterk will be on 32 is do	mulater the done	e the Pictured e surface casing through BOP. ted to this we	ng is s	110 sks s formation. set & cemented. OL DIST. 3 reductive zone and proposed new product		
12 1/4" 6 3/4" IN ABOVE SPACE Beginner of proposal preventer program 24.	Selecting A BOP was All substituted and A BOP was All substituted and a second and	8 5/8" 2 7/8" ively perfowill be insequent wo /4 of Section	rate & stintalled afterk will be on 32 is defined after the constant of the co	mulateer the done edica	e the Pictured e surface casing through BOP. ted to this we have a subsurface locations	present prand measu	110 sks s formation. set & cemented. OL DIST. 3 reductive zone and proposed new product		
12 1/4" 6 3/4" 18 ABOVE SPACE B 20He. If proposa preventer prograt 24. SIGNED	Selecting A BOP was All substituted and the SE, which is to drill on the second of the second and the second an	8 5/8" 2 7/8" ively perfowill be insubsequent wo /4 of Section osed Program: Hor deepen direction	rate & stintalled after will be on 32 is described by the proposal is to denally, give pertine	mulateer the done edica	e the Pictured e surface casing through BOP. ted to this we plug back, give data on on subsurface locations. Drilling Engineering	present prand measu	s formation. set & cemented. OL DIST. 3 roductive zone and proposed new product red and true vertical depths. Give blow		
12 1/4" 6 3/4" 18 ABOVE SPACE B 20He. If proposa preventer prograt 24. SIGNED	Selecting A BOP was All substituted and the SE, which is to drill on the second of the second and the second an	8 5/8" 2 7/8" ively perfowill be insubsequent wo /4 of Section osen program: Hor deepen direction State office use)	rate & stintalled after will be on 32 is described to the formula of the forether of the formula of the formula of the formula of the formula	mulateer the done edica	e the Pictured e surface casing through BOP. ted to this we plug back, give data on on subsurface locations. Drilling Engineering	present prand measu	s formation. set & cemented. OIL DIST. 3 Coductive zone and proposed new product red and true vertical depths. Give blow		

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Superse les C-128 Effective 1-1-55

All distances must be from the outer boundaries of the Section. Well No. Lease Operator 8 Jicarilla 93 Cornocati on Morthwest Range County Township Unit Letter Rio Arriba Actual Footage Location of Well: 008 feet from the South line and feet from the Dedicated Aureque: Producing Formation Ground Level Elev. Gavilan 160 -Fictured Cliffs 71.75 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 gwnership 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 reconstruction) 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. Drilling Engineer Company Northwest Pipeline Corp. 32 Contract 93 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. 1008

OPERATIONS PLAN

Jicarilla 93 #8

I. LOCATION: SE/4 Sec. 32, T27N, R3W LEASE NUMBER: Contract 93

FIELD: Gavilan-Pictured Cliffs ELEVATION: 7174' GR

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo: 3418' Pictured Cliffs: 3900' Kirtland: 3625' Total Depth: 4150'

Fruitland: 3753

B. Logging Program: I-ES and Density at T.D.

C. Coring Program: None
D. Testing Program: None

III. DRILLING:

A. Anticipated starting date and duration of activities: Sept. 10, 1977

B. BOP: Blind rams and pipe rams, 10', 900 series, double gate, rated at 3000 PSI.

C. Mud Program:

a) Spud Mud: Water, lime and gel.

b) Surface to 3500

Starle : CMC mud
Viscosity: 25-30 sec/qt.

Weight: 8.9-9.5 #/gal.

Water Loss: 7-12 cc Ph: 8.5-9.5

c) From 3500

Starlcss: CMC Hy-gel mud. Viscosity: 38-80 sec/qt. Weight: 9.0-9.5 #/gal.

Water Loss: 6-8 cc Ph: 8.5-9.5

IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grade	Depth Set
12 1/4"	102'	8 5/8"	24# K - 55	120'
6 3/4"	4150 '	2 7/8"	6.4# K - 55	41501

V. CEMENTING:

A. Surface Casing 8 5/8" - Use 85 sks. Cl. "B" cmt. with 1/4# flocele/sk. & 3% calcium chloride (100% excess to circ.). WOC 12 hrs. Test surface csg. to 600 PSI for 30 minutes.

B. Production Casing 2 7/8" - Use 60 sks. 65/35 poz with 10% gel & 1/4 cu. ft. fine gilsonite/cu. ft. slurry & tail in/50 sks. Cl. "B" cmt. w/2% calcium chloride. WOC 0 hours. Run temperature survey after 12 hours.