24.

SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425

(May 1990)	DEPARTMENT	_	NTERIOR	(Other instruction reverse si		30 - 039-2/728 5 LEASE DESIGNATION AND SERIAL NO. Ticarilla Apache
		GICAL SURVE		N DI II O D		Contract #152 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
APPLICATION	N FOR PERMIT T	O DRILL, L	DEEPEN, OI	R PLUG B	ACK	
1a. TYPE OF WORK DRI	LL 😡	DEEPEN [PLUG BAG	CK 🗌	Jicarilla Apache 7. UNIT AGREEMENT NAME
b. TYPE OF WELL OIL G.	AS []		SINGLE	MULTIP	re [X	8. FARM OR LEASE NAME
2. NAME OF OPERATOR	ELL X OTHER		ZONE	ZONE	LAI	Jicarilla 152 W
Northwest 1	Production Co	rnoration	1			9. WELL NO.
3. ADDRESS OF OPERATOR	. I Dauction co	I POI UCIOI	<u>. </u>		· · · · · · · · · · · · · · · · · · ·	2A -
PO Box 990	, Farmington, eport location clearly and	NM 8740)1			10, FIELD AND POOL, OR WILDCAT So. Blanco Pic. Cliffs
4. LOCATION OF WELL (R	eport location clearly and	in accordance wit	h any State requi	rements.*)		Blanco Mesa Verde
P	810'S, 880	*E				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zon	•					Sec.5,T-26-N,R-5-W
						NMPM 12. COUNTY OR PARISH 13. STATE
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POS.	r OFFICE-			
35 miles SE of Gobernador, NM 15. DISTANCE FROM PROPUSED* 16. No. OF ACRES IN LEASE 17. No.				i 17 No.	Rio Arribá NM	
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)			то т	HIS WELL PC-160.00 & MV-319.7		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		1600	19. PROPOSED DE	_{РТН} 5845 '	20. ROTARY OR CABLE TOOLS ROTARY	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*
23.	P	ROPOSED CASIN	G AND CEMEN	ring progra	AM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OOT SETT	ING DEPTH		QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3		200'		cu.ft. to circulate
8 3/4"	7."	20.0	•	3520 '		cu.ft.to cover Ojo Ala
6 1/4"	4 1/2"line	r 10.5	5# 337	0-5845'	432	cu.ft.to fill to 3370'
and Picture A 3000 psi	ed Cliffs form WP and 6000	mations. psi test	double g	ate pre	vente	a Verde formation r equipped with
blind and	pipe rams wil	ı pe usec	i for blo	w out p	reven	tion on this well.

This gas is dedicated.

The E/2 of Section 5 is dedicated to this well.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed program is a proposed pr posed 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.

BIGNED Stage Bradfuld	Drilling Clerk	DATE <u>April 10,19</u> 78
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Well No. JICARILLA Operator Jicarilla 152 "W" CONTRACT #152) NORTHWEST PRODUCTION CORPORATION 2A Township Unit Letter Rio Arriba 26N Actual Footage Location of Well: feet from the line line and South feet from the Dedicated Acreage: Poel So. Blanco Pictured Cliffs Producing Formation Gtound Level Elev. 160.0 & 319.70 Acres Blanco Mesa Verde Pictured Cliffs-Mesa Verde 6575 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. 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 belief. 0 Drilling Clerk Northwest Production Cdrp April 10, 1978 JICARILLA CONTRACT #152 Sec 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. Date Surveyed 880* February 25. and/or-Land Surveyor

2000

1980 2310 2640

660

NORTHWEST PRODUCTION CORPORATION Jicarilla 152 W #2A

Multi-Point Surface Use Plan

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2
- 4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines Please refer to Maps No. 1 and No. 2.

 Map No. 2 shows the existing gas gathering lines. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from a water hole located at Candelaria Water Hole.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

- Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1 will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.
- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed Mixture # will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted
- 11. Other Information The terrain is high sandstone ledges and rolling hills with pinon and cedar growing.

- 12. Operator's Representative W. D. Dawson, Post Office Box 990, Farmington, New Mexico 87401
- 13. Certification -

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 Northwest Production Corp. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

April 10, 1978

D C Walker

Project Drilling Engineer

DCW:pb

Operations Plan Jicarilla 152 W #2A

I. Location: 810'S, 880'E, Section 5, T-26-N, R-5-W, Rio Arriba County, NM

Field: Blanco MV & So.Blanco PC

Elevation: 6575'GL

II. Geology:

Α.	Formation Tops:	Surface	San Jose	Lewis	3320'
		Ojo Alamo	2605 '	Mesa Verde	4080'
		Kirtland	2740 '	Menefee	4980'
		Fruitland	3070 '	Point Lookout	5395 '
		Pic.Cliffs	3200 '	Total Depth	5845 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4870', 4970', 5385' and at Total Depth.
 Also gauge any noticeable increase in gas. Record all gauges in
 daily drilling report and on morning report.

III. Drilling:

A. Mud Program: mud from surface to 3520'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
•	5 = 5	13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3520 '	7"	20.0# K-55
		6 1/4"	3370-5845'	4 1/2"	10.5# K-55

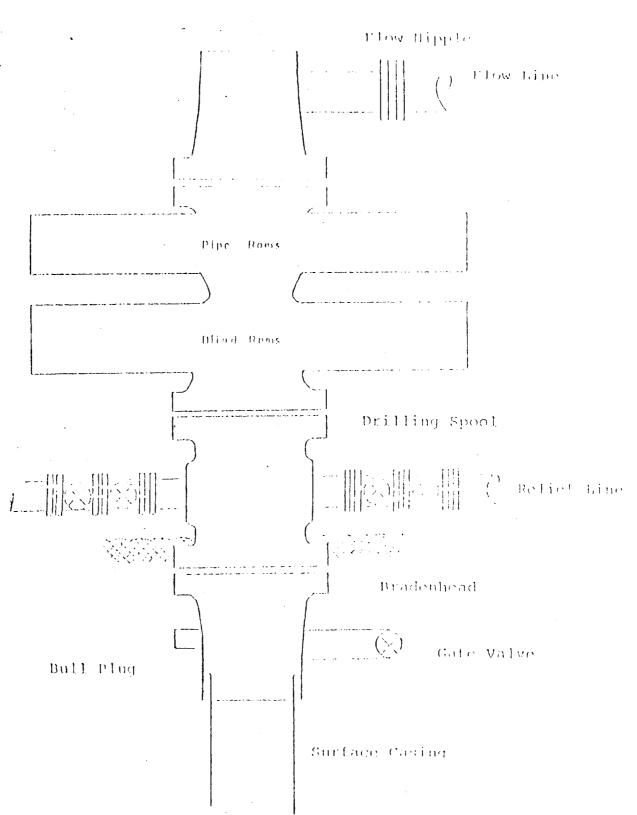
B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig. 102)

7" intermediate casing - Dowell guide shoe (fig. 50101) and Dowell self-fill insert float valve (fig. 53003), 5 B&W stabilizers (Prod. No. 637085) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 5845' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

V. Cementing:

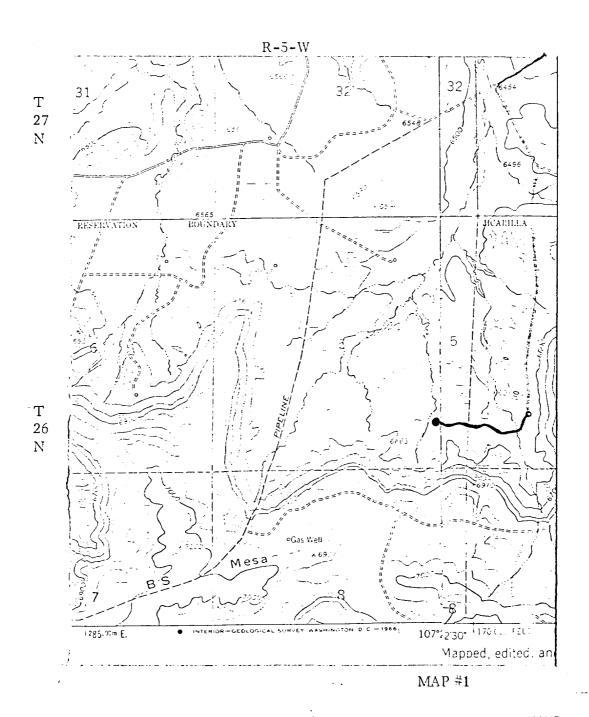
- 9 5/8" surface casing use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 52 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (206 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.
- 4 1/2" liner precede cement with 20 barrels of gel water (2 sks. gel) Cement with 311 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (432 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



Series 900 Double Gate BOP, rated at 3000 psi Working Pressure When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line The standard to was down and works wells From a ollhoset to 3,44 yE Paul Tong 500 Buch 4

2/1

NORTHWEST PRODUCTION CORPORATION Jicarilla 152 W #2A SE 5-26-5



LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
	PIPELIMES	 + -+
EXISTING	ROAD & PIPELIN	Œ ~!~/~ •
PROPOSED	RCADS	
PROPOSED	PIPELIMES	+++
PROPOSED	RCAD & PIFELIT	E -+ + +
		· ·

NORTHWEST PRODUCTION CORPORATION Jicarilla 152 W $\mp 2A$

Conece Sounion Soumon 12 11 E 5(MO) <u>ડસન્ય//સ G</u> E PNG Tenneco 15 Amoco Amoco 26 27 28 10(30) Sc.Union Marathon 7(10) Je G Com"C 3 G 35 34 33 dicarilla I"

MAP = 2