Form 9-331 C (May 1963)	Dr. r Artesi DEPARTMEN	FOR THE	6 NTER		,		No. 42-R1425.
		GICAL SURV		MAY 2 7 19	82	NM 36193 6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
APPLICATION	I FOR PERMIT	<u>ro drill,</u>	DEEPE	N, OR PLUG E	BACK		
1a. TYPE OF WORK		DEEPEN		ARTESLAGORA	<b>£</b> K 🗌	7. UNIT AGREEMENT NA	ME
b. TYPE OF WELL OIL GA WELL W 2. NAME OF OPERATOR	ELL OTHER		SIN ZON	GLE MULTH E ZONE		8. FARM OR LEASE NAM Fourmile Di	
TRANSWESTERN GAS SUPPLY COMPANY						9. WELL NO. 2	
P.O. Box 2521, Houston, TX 77001 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At striace 1980'FNL 1650'FEL Sec.17 10. FIELD AND POOL, OR WILDCAT Wildcat Hbb 11. Sec., T., R., M., OR BLK. AND SURVEY OR AREA					760 LK.		
At proposed prod. zon					ut. 6	Sec.17-65	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*					12. COUNTY OR PARISH	13. STATE	
30 miles no 15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT. 1	<u>oswell, N</u> 650'	16. NO. 2	OF ACRES IN LEASE	. TO TH	Chaves F ACRES ASSIGNED FIS WELL 160	N.M.
IN. DISTANCE FROM PROPOSED LOCATION* TO NUMBERT WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 11,220						CARY OR CABLE TOOLS	
21. ELEVATIONS (Show whe 4340 GL		1,220	1 1.			22. APPROX. DATE WO	, 1982
23.		PROPOSED CASI	NG AND	CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00 <b>T</b>	SETTING DEPTH		QUANTITY OF CEMEN	
17 172"	13 3/8"	48.0#	K-55	60'		ix - TD to S	
12 1/4"	8 5/8"	24.0#	K-55	1800'±	±950	sx - Circul	
7 7/8"	4 1/2"	10.5#	J-55	TD	±350	sx To cover	ADU

Propose to drill to about 4500' to test Abo and intermediate formations.

See attached "Supplemental Drilling Data".

See Exhibit "D" for BOP information.

. . ) 1302 <u>in 1</u> `../  $\omega_{1} + E \gamma_{2} \zeta$ 1913 A. 19

Gas is dedicated.

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.

Dr			
24. SIG SED	errey 1. Joug	TITLE Agent	DATE April 19, 1982
(This space (EERMIT NO.	for Federal of State once use /	APPROVAL DATE	P.S. W
APPROVED BY	MAY 2 0 1982	TITLE	The Bow
CONDITIONS O	JAMES A. GILLHAM DISTRICT SUPERVISOR		Roept 28'
	*		6

\*See Instructions On Reverse Side

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All detrements must be free the entry broadshifts of the Section.  Verifier		ERALS DEPARTMEN		FE, NEW MEXICO		
Control       Fourmile Draw Federal       2         Interver       Section       Toronkly       Fourmile Draw Federal       2         Interver       Section       Toronkly       Control       Cantor         11       Unit of Section       Toronkly       22-E       Chaves         11       Description       North       Interver       Cantor       Description         1201       Free trees the MORTH       Intervert       Proof       Mildcat       Hoo       Description       Acres         43401       Intervert       ABO       Proof       Wildcat       Hoo       Description       Acres         1. Outline the acreage dedicated to the subject well by colored pencil or bachure marks on the plat below.       Intervert       Acres         2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to workin interests and royally). Single Lease       Intervert       Single Lease         3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated. (Use reverse side of this form if necessary.)       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 for therewi			All distances must		e incorcion.	
In Letter       Section       Termstate       Intege       Chaves         G       17       6-S       22-E       Chaves         User Feaster Lever if or Will:       1980       text from the       NORTH       Intege       Chaves         1980       text from the       NORTH       Intege       Chaves       Deducated Accesser:         2001       Producing Pornotion       ABO       Peel       Wildcat       Pho       Intege         10       Outline the acreage dedicated to the subject well by colored panel or hachure marks on the plat below.       Intege       Acrea         2. If more than one lense is dedicated to the well, outline each and identify the ownership thereof (both as to workin interest and royalty).       Single Lease         3. If more than one lense of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?         11       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 Divisio forget on the will bene in formation car thind benefit in two and complete to the well aconting and filet.         11		האו כאב בווסם	DLY COMPANY	1 -	Draw Federal	2
G       17       6-S       22-E       Chaves         Und resider Location of Will:       Incerting in Will:       Incerting in Will:       Incerting in Will:       Destroyed Location         1980       Interting in Will:       Interting in Will:       Product for the Will:       Destroyed Location         10. Outline the acreage dedicated to the subject well by colored poincil or hackure 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 workin interest and royalty). Single Lease         2. 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 octually 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, unitization force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division to the ord formation weight been to descript that the information we take to the solved point of the owner standard unit, eliminating such interests, has been approved by the Division of the solved point of the owner standard unit, eliminating such interests, has been approved by the Division of the solved point of the owner standard unit, eliminating such interests, has been approved by the Division of the solved point of the owner standard unit, eliminating such interest, as bearen approved by the Division				Range		
Participation of Welt       Inter and 1650       Free from the interest of differences       Dedicated Accesses         43401       Proof Wildcat 1/bo       Dedicated Accesses       Dedicated Accesses         1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.       2.       If more than one lense is dedicated to the well, outline each and identify the ownership thereof (both, as to workin interest and royalty).       Single Lease       .         2. If more than one lense of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?           1. Yes       No       If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if accesser).          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 Divisie for the soft of my havering of the information can trained beering in the soft of the soft of my havering and flict.         1       R       2       E           1       beside my havering the soft of the information can trained beering in the soft of the information can trained beering in the soft of the soft of the information can trained beering in the soft of thesoft of		_	I	22-E	Chaves	
1980       Interest       Note of the information       Proof wildcat		ation of Well:		1650	FAST	line
Wildcat Hbo       160       Arrow         A3401       ABO       Wildcat Hbo       160       Arrow         1. Outline the acreage dedicated to the subject well by colored pancil or hachure marks on the plat below.       Arrow       Arrow         2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both, as to workin interest and royalty). Single Lease       Single Lease         3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated to communitization, unitization, force-pooling, etc?       If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary).         No allowable will be assigned to the well unitil all interests have been consolidated (by communitization, unitization force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Divisition of the plate of my knowledge of fliet.         No allowable will be assigned to the well unitil all interest have been consolidated (by communitization, unitization forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Divisition of the plate of my knowledge of fliet.         No allowable will be assigned to the well work and the plate of my knowledge of fliet.       Nome         No allowable will be assigned to the well work and the plate of my knowledge of fliet.       Nome         No allowable will be assigned to the well work and the plate of my knowledge of fliet.       Nom	1980	leet from the			fret from the CAST	Dedicated Acreoge:
1. Outline the acceage 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 workir interest and royally). Single Lease         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 yes       No         If answer is "no," list the owners and tract descriptions which have octually been consolidated. (Use reverse side this form if necessary.)         No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitizatio forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Divisi to the well unit and unit, eliminating such interests, has been approved by the Divisi fored from the information contrained herein is two and complete to the standard unit, eliminating such interests, has been approved by the Divisi fored from the information contrained herein is two and complete to the standard unit, eliminating such interests, has been approved by the Divisi of the standard unit, eliminating such interests, has been approved by the Divisi fored from the information contrained herein is two and complete to the standard unit, eliminating such interests, has been approved by the Divisi of any knowledge and Cliet.         No       If thereby certify that the information contrained herein is two and complete to the standard unit, eliminating such interests, has been approved by the Divisi of any knowledge and Cliet.         No       If thereby certify that the well keensi there of the standard unit, alim	A340'	Producing Fo		Wildcat	Hbo	160 Acre
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to workin interest and royalty). Single Lease 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?          I'res       No       If answer is "yes," type of consolidation         I' answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary.)         No       If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form of necessary.)         No       If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form of necessary.)         No       If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form of necessary.)         No       If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form of necessary.)         No       If an environment is a non-standard unit, eliminating such interests, has been approved by the Divisi to rained herein is two ond complete to the rained herein is two ond completes to the set of any knowledge and fliet.         I       If hereby certify that the information construction is the ord complete to the set of a story and the reverse story.         I       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			ABU		il or hachure marks on t	he plat below.
s 4 Marctr 988 -	interest an 3. If more that dated by c Yes If answer this form i No allowal forced-poo	nd royalty). Si no one lease of c communitization, No If a is "no," list the f necessary.)	different ownership unitization, force-po answer is "yes," typ owners and tract d ned to the well until e) or until a non-stan	is dedicated to the wooling. etc? the of consolidation escriptions which hav all interests have be dard unit, eliminating 	e actually been consolid en consolidated (by con- such interests, has bee I hereby toined h best of UERRY Position Agent Compony TRANSW Date April I hereb shown notes c	f all owners been consol dated. (Use reverse side nmunitization, unitization n approved by the Divisi CERTIFICATION certify that the information con- erein is true and complete to the my knowledge and felief. W. LONG W. LONG IESTERN GAS SUPPI 19, 1982 y certify that the well locat on this plot was plotted from find of actual surveys made by me by supervision, and that the set of

### SUPPLEMENTAL DRILLING DATA

### TRANSWESTERN GAS SUPPLY COMPANY N0.2 Fourmile Draw Federal 1980'/N 1650'/E Sec.17-6S-22E Chaves County, N.M.

#### NM 36193

The following items supplement Form 9-331C in accordance with instructions contained in NTL-6.

1. SURFACE FORMATION: Permian San Andres

2.	ESTIMATED TOPS	OF	GEOLOGIC	MARKERS:
	San Andres		Surface	
	Glorieta		1150'	
	Tubb		2300'	
	Abo		2750'	

- 3. <u>ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION</u>: Water - Surface to 300' Gas - 2750' to 4500'
- 4. <u>PROPOSED CASING PROGRAM</u>: 13 3/8" Casing - Set two joints with rat hole machine and grout to surface. 8 5/8" Casing - Set at 1800'± and cement with an estimated 950 sx of cement. (Circulate)
  - 4 1/2" Casing Set to total depth and cement with an estimated 350sx of cement to isolate all water, oil and gas zones.

Type of cement and additives will be determined by hole conditions. The intermediate and production casing strings will be tested to 1000 psi.

- 5. <u>PRESSURE CONTROL EQUIPMENT</u>: Blowout preventer stack will consist of double-ram blowout preventer rated to 3000 #WP. A sketch of the BOP is attached.
- 6. <u>CIRCULATING MEDIUM</u>: Hole for 13 3/8" conductor pipe will be drilled with a rat hole auger. Mud will

be used as the circulating medium. Mud additives will be used as hole conditions dictate.

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- 7. AUXILIARY EQUIPMENT: Full-opening kelly cock, to fit the drill string in use, will be kept on the rig floor at all times.
- 8. <u>TESTING, LOGGING AND CORING PROGRAM</u>: Samples: Surface casing shoe to TD DST's: None anticipated Logging: Gamma Ray-Neutron log and other logs as recommended by well-site geologist. Coring: None anticipated
- 9. <u>ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE</u>: None anticipated. Maximum bottom-hole pressure should not exceed 1200 psi. Bottom-hole temperature will be about 110°F.
- 10. ANTICIPATED STARTING DATE: Drilling will commence about May 1, 1982 Drilling should be completed within 10 days. Completion operations (perforations and stimulation) will follow drilling operations.



TRANSWESTERN GAS SUPPLY COMPANY No.2 Fourmile Draw Federal 1980'/N 1650'/E Sec.17-6S-22E Chaves County, N.M.



# BOP STACK

3000 PSI WORKING PRESSURE RAMS TO BE OPERATED DAILY

# REHABILITATION PLAN

	193; Well Names and No.: 2 Fourmile Draw Federal
	<u>1</u> , Section <u>17</u> , T <u>6</u> _S., R <u>22</u> E.,
CountyChaves	, State <u>New Mexico</u>
Transwestern Gas	Supply Qik Company intends to drill a
	wned by <u>William D. McKnight</u> . The lessee/
	o complete the following rehabilitation work if the
well is a produce	r:
17 Yes / 7 No	Maintain access road and provide adequate drainage from road.
/ Yes / No	Reshape and seed any area not needed for maintenance of the production facilities.
Other requirement	s:
	•
The following wor	k will be completed when the well is abandoned/dry hole:
	WELL LOCATION
<u>/7</u> / Yes <u>/</u> 7 No	Pit will be fenced until dry, then filled to conform to surrounding topography.
1/1/Yes // No	Water bars will be constructed as deemed necessary.
<u>/ / Yes</u> / / No	Site will require reshaping to conform to surrounding topography.
/ Yes / 7 No	Entire distrubed area will be seeded with the following seed mixture:
	to be grided helter
	ACCESS ROAD
/┬ Yes /┬ No	Access road will be closed, rehabilitated and seeded using the same seed mixture as above.

Yes / No Water bars will be constructed on the access road as deemed necessary

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