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Form 9-331 C (May 1963)	(Other instruct TS on				Budget Bureau		
					ć	30-005-6/288 5. LEASE DESIGNATION AND SERIAL NO.	
					NM 32352	AD SUBIAL NO.	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
	ON FOR PERMIT	TO DRILL, D		N, OK FLUG DA			
	DRILL 🖾	DEEPEN [PLUG BAC	К 🗌	7. UNIT AGREEMENT NA	ME
b. TYPE OF WELL	WELL OTHER		SIN	GLE X MULTIPL	R	S. FARM OR LEASE NAM	0
WELL						McKnight Fe	ederal
Transwest	ern Gas Supply (Company 🗸 🔄			· · · ·	9. WELL NO.	
3. ADDRESS OF OPERA				DEC 17 B	C I		TT V D Q . m
P. O. Box 2521 Houston, TX 77001						10. FHELD AND POOL, OR	
T. DOCATION OF WEAR (Report total of all of					11. SEC., T., B., M., OB BI		
	from North lease					AND SURVEY OR AREA	
At proposed prod	. zone					Sec. 28 T65	S R23E
	LES AND DIRECTION FROM NE	AREST TOWN OR POST	OFFICE	8			13. STATE
	NNW of Roswell		10	0	17 10	Chaves	NM
15. DISTANCE FROM D LOCATION TO NE.	AREST	1980 ft.	16. NO.	of acres in lease		HIS WELL 160	
	t drlg. unit line, if any)	1901) 11.	10 000	DPOSED DEPTH		RY OR CABLE TOOLS	
TO NEAREST WE	PROPOSED LOCATION* LL, DRILLING, COMPLETED, N THIS LEASE, FT.	None -		500 ft.	20. 1014	Rotary	
21. ELEVATIONS (Show	w whether DF, RT, GR, etc.) 4133 GL					AS SOON AS DO	
23.	4155 GL	PROPOSED CASIN	G AND	CEMENTING PROGRA	м		
						QUANTITY OF CEMEN	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO		SETTING DEPTH		OLD CHILATE	· · · · · · · · · · · · · · · · · · ·
$\frac{17 1/2}{12 1/4}$	<u> </u>	_ <u>54.5#-48.0</u> 24.0#		<u>60'</u> 1600'-1800'±	Redin 		· · · · · · · · · · · · · · · · · · ·
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IN ABOVE SPACE DES	CRIBE PROPOSED PROGRAM :]	f proposal is to deep	oen or p	lug back, give data on pi	resent pro	ductive some and proposed	new productiv
zone. If proposal 5 preventer program,	is to drill or deepen direction	onally, give pertinent	t data o	n subsurface locations at	ia measure	ed and true vertical depth	s. Grive biowou
24.							
1	New matrix.	Oeffner T	ne Mn	ar. US Onshore	Prod	DATE	3-81
SIGNED							
	Federal or State office use)	1					
PERMIT NO.	PPROVED			APPROVAL DATE			
APPROVED BY		ти	TLE			DATE	<u> </u>
CONDITIONS OF A	DEC 1 5 1981						
נ	AMES A. GILLHAM STRICT SUPERVISOR	*See Instru	octions	On Reverse Side			

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION --- ...

P. O. 110X 2088

P. O. DOX 2088 SANTA FE, NEW MEXICO 8750

Form C-102 Revised 10-1-78

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10101	Tranewo	stern Gas	Supply Comp		McKnigh	t Federal	L	#1
	Secti		Township	na		County		<u></u>
Lellys	F	28	6 Sou	th 🕴	23 East		Chave	<u>s</u>
01 10010	ige Location (Well:	_ <u></u> _		· · · · · · · · · · · · · · · · · · ·			
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nd Level	1 Clay.	Producing Fo		Pool	esignatio	n Abo		160 Acres
4133 ABO 1. Outline the acreage dedicated to the subject w				Undesignation Abo			······································	
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• • • • • • •	NM 1980'		1980				toined he best of my verse JERRY Position Agent Compary TRANSWE Datu Decei	certify that the information con rein is true and complete to the hnowledge and belief. W. LONG STERN GAS SUPPLY (mber 3, 1981 certify that the well location
•		 Sec.28, 	T.6 S., R.2	3 E., N.M.P	.₩. 		shown on notes of under my Is true o	this plut was platted from field actual surveys made by me a supervision, and that the sum and concer to the best of my and blies A O CAR
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SUPPLEMENTAL DRILLING DATA

TRANSWESTERN GAS SUPPLY COMPANY No.1 McKnight Federal SE눛NW눛 Sec.28-65-23E Chaves County, N.M.

NM 32352

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

- 1. SURFACE FORMATION: San Andres Formation
- 2. ESTIMATED TOPS OF GEOLOGIC MARKERS: San Andres - Surface Tubb - 2300' Glorieta - 750' Abo - 3000'
- 3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATIONS: Water - Surface to 300' Gas - 3000' to 4500'
- 4. PROPOSED CASING PROGRAM: See Form 9-331C
- 5. <u>PRESSURE CONTROL EQUIPMENT</u>: Blowout preventer stack will consist of a double-ram blowout preventer and rotating head 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. Air will be used as the circulating medium for the remainder of the drilling. It is anticipated that a foam additive will be necessary until the intermediate casing is cemented.
- 7. <u>AUXILIARY EQUIPMENT</u>: Full-opening kelly cock, to fit the drill string in use, will be kept on the rig floor at all times.
- 8. TESTING, LOGGING AND CORING PROGRAM:

Samples:	Surface casing shoe to TD
DST's:	None anticipated
Logging:	Gamma Ray-Neutron log and other logs as recommended by wellsite geologist.
Coring:	None anticipated

- 9. <u>ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE</u>: None anticipated. Maximum bottom-hole pressure should not exceed 1500 psi. Bottom-hole temperature will be about 110°F.
- 10. ANTICIPATED STARTING DATE: Drilling will commence about December 15, 1981. Drilling should be completed within 10 days. Completion operations (perforations and stimulation) will follow drilling operations.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

TRANSWESTERN GAS SUPPLY COMPANY No.1 McKnight Federal 1980'/N 1980'/W Sec.28-6S-23E Chaves County, N.M.



NM 32352

U.S. GEOLOCICAL SURVEL LOSWELL, NSW MEXICO

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

- 1. EXISTING ROADS:
 - A. <u>Exhibit "A"</u> is a portion of a road map showing the location of the proposed well as staked. The well is approximately 27 miles north-northwest of Roswell New Mexico.
 - B. <u>Directions</u>: From the intersection of Hwy.285 and Hwy.70, north of Roswell, go 20 miles north on Hwy. 285. Turn west on the County road and go 2.4 miles. Go south ½ mile to Fred Pool well in the SWSE Sec.21. Go south 1/8 mile on Transwestern Pipeline Company right-of-way. Follow new access road ½ mile southwest to location.
- 2. PLANNED ACCESS ROAD:
 - A. Length and Width: The new access road will be 12' wide (20' ROW) and 5/8 mile long.
 - B. <u>Surfacing Material</u>: The access road and well pad will be surfaced with about 6" of compacted caliche, if soil conditions deem surfacing to be necessary.
 - C. Maximum Grade: Less than 4%.
 - D. <u>Turnouts</u>: Two turnouts will be constructed to provide ample room for vehicles to pass.
 - E. Drainage Design: The road will be constructed with a 6" crown and adequate drainage.

- F. Culverts: None necessary
- G. <u>Cuts and Fills</u>: The pad area slopes to the southwest and will require about 5' of cut on the northeast corner.
- H. Gates, Cattle Guards: None necessary

3. LOCATION OF EXISTING WELLS:

A. Existing wells are indicated on Exhibit "A".

- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
 - A. There are no existing facilities on the lease.
 - B. If the well is commercial, production and storage facilities will be constructed on the well pad.
- 5. LOCATION AND TYPE OF WATER SUPPLY:
 - A. Water will be purchased from Corn Water Well No.2 in Sec.10-7S-23E. Since this well will be drilled with air, only minimal amounts of water will be required.
- 6. SOURCE OF CONSTRUCTION MATERIALS:
 - A. Necessary caliche will be obtained from a pit on privately-owned land in the SE¹/₄ Sec.21-6S-23E.
- 7. METHODS OF HANDLING WASTE DISPOSAL:
 - A. Drill cutting will be disposed of in the drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
 - C. Water produced during test will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
 - D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - E. Trash, waste paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of the trash pit is shown on Exhibit "C".

- F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion.
- 8. ANCILLARY FACILITIES:
 - A. None necessary
- 9. WELL SITE LAYOUT:
 - A. <u>Exhibit "C"</u> indicates the relative location and dimensions of the well pad, mud pits, reserve pit and major rig equipment.
 - B. The location is sloping to the southwest requiring about a 5' cut on the northeast corner.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the well is non-productive the disturbed area will be rehabilitated to Federal agency requirements and will be accomplished as expeditiously as possible.
- D. Full consideration will be given to preferences of the fee surface owner.

11. OTHER INFORMATION:

- A. <u>Topography</u>: The topography is sloping to the southwest in the vicinity of the drill pad. Exhibit "B" is a contour map of the area.
- B. <u>Soil</u>: The soil is composed of moderately compacted sandy loam, hosting occasional chert and quartzite cobbles and gravels.
- C. <u>Flora and Fauna</u>: The flora consists of typical desert vegetation, such as yucca, mesquite, cactus and various grasses. Fauna consists of desert wildlife such as coyotes, rodents and snakes.

- D. <u>Ponds or Streams</u>: Drainage is toward the southwest discharging into Arroyo del Macho which is about 2 miles southwest of the location.
- E. <u>Residences and Other Structures</u>: The nearest occupied dwelling is about 2 miles northwest. A windmill is located about 1.1 miles northeast.
- F. Archaeological, Historical and Other Cultural Sites: No artifacts were noted in the area of the pad or access roads. An archaeological survey was conducted by NMAS and a report furnished to BLM and USGS.
- G. Land Use: Grazing
- H. <u>Surface Ownership</u>: The well is located on privatelyowned surface. A Surface Owner Agreement is attached.
- 12. OPERATOR'S REPRESENTATIVE:

Field Operations:	Land and Legal:		
Mr. Hank Spruill	Mr. Bill Lawrence		
2801 North Main	Midland, TX 79701		
Roswell, N.M. 88201	Ph.915-683-5241		
Ph.(505)624-2140-	683-5242		
624-2141	683-5243		

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; that the work associated with the operations proposed herein will be performed by TRANSWESTERN GAS SUPPLY COMPANY and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

December 3, 1981 Date:





TRANSWESTERN GAS SUPPLY COMPANY No.1 McKnight Federal

REHABILITATION PLAN

Lease No.:	; Well Nam	es and No.: <u>McKnight Federal #1</u>				
Subdivision: <u>NW</u>	/4	, Section 28 , T. 6 S., R. 23 E.				
County <u>Chaves</u>		, State New Mexico				
Transwestern	Gas Supply	XXiXiX Company intends to drill a				
well on surface of	wned by <u>William</u>	D. McKnight . The lessee/				
operator agrees t	to complete the fol	lowing rehabilitation work if the				
well is a produce	er:					
/// Yes /// No	Maintain access road and provide adequate drainage from road.					
/_7 Yes /_7 No	Reshape and seed any area not needed for maintenance of the production facilities.					
Other requirement	s:					
The following wor	k will be complete	ed when the well is abandoned/dry hole:				
	WELL LOCAT	ION				
∰7 Yes <u>/</u> No	Pit will be fenced until dry, then filled to conform to surrounding topography.					
/_/ Yes //// No	Water bars will be constructed as deemed necessary.					
17 Yes 17 No	Site will require reshaping to conform to surrounding topography.					
/ Yes / 7 No	seed mixture:	area will be seeded with the following				
	To be decided	later				
						
/	ACCESS F	ROAD				
17 Yes /7 No	Access road will be closed, rehabilitated and seeded using the same seed mixture as above.					
177 Yes 17 No	Water bars will be constructed on the access road as deemed necessary.					
Other requirement	:s:					

SURFACE C	WNER	OPERATOR/LESSEE				
Name: <u>William D</u> .	McKnight	Name: <u>Transwest</u> ern Gas Supply Co.				
Address:		Address: 280/ N. Main				
City: <u>Roswell</u> ,		City: <u>Reswell</u>				
State: <u>New Mexi</u>	.00	State: New Mexico				
Phone No.: (505)		Phone No.: 624-2140				
Date: <u>12-7-81</u>		Date: 12-7-81				

I CERTIFY rehabilitation has been discussed with me, the surface owner:

Trallicin D. Duck.

(Surface owner's signature)

This plan covers rehabilitation requirements only and does not affect any other agreements between the lessee/operator and surface owner.