(May 1963)		Y TO O. C.	Sold SUBMIT	IN TRIPLICAT	E* Form approv	ed.	
		ED STATES	rev rev	instructive yn erse sid	Budget Buren	m No. 42 R14	
	DEPARTMEN			•	5. LEANE DENIGNATION	AND ARD	
	GEOLOG	GICAL SURVE	EY		5. LEASE DESIGNATION AND BEBIAL NO NM 10195		
APPLICATION	N FOR PERMIT T	O DRILL, D	EPEN. OR PLU	G BACK	6. IF INDIAN, ALLOTTE	E OR TRINK NAM	
1a. TYPE OF WORK					NA		
DRI b. TYPE OF WELL		DEEPEN [	PLUG	BACK	7. UNIT AGREEMENT N		
011. V G	AS OTHER				Undesignat		
2. NAME OF OPERATOR					Spotted Tail Feder		
Giff 3. ADDRESS OF OPERATOR	ord, Mitchell &	Wisenbaker		· · · · · · · · · · · · · · · · · · ·	9. WELL NO.	· · · · · · · · · · · · · · · · · · ·	
	Midland Nat'l E	Bank Twr., I	Midland, Texas	79701	2 10. FIELD AND POOL, C		
4. LOCATION OF WELL (R. At surface	eport location clearly and	in accordance with	any State requirements.*	)	Undesignat	-	
660'	FNL & 660' FEL	of Section	31		11. SEC., T., R., M., OR AND SURVEY OR AN	BLK.	
At proposed prod. zon	e		•		Section 31,		
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE*	,	R-36-E 12. COUNTY OR PARISH	13. STATE	
6 miles	Southwest of Jal	I, New Mexi		-44 2	Lea	N. M.	
10. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L	ſ	6601	16. NO. OF ACRES IN LEAS		OF ACRES ASSIGNED		
(Also to nearest drig 18. DISTANCE FROM PROP	5. unit line, if any) OSED LOCATION®	660'	640 1 19. FROPOSED DEFTH		40	·	
TO NEAREST WELL, DI or applied for, on the	RILLING, COMPLETED, 19 LEASE, FT.	1320.5	3300	ZU. ROT.	Rotary		
21. ELEVATIONS (Show whe		•	· · · · · · · · · · · · · · · · · · ·		22. APPROX. DATE WORK WILL STAR		
GK =	3038.5		·	·	11/10/78	•	
	PI	ROPOSED CASIN	G AND CEMENTING PR	OGRAM		,	
12 1/4"	SIZE OF CASING	WEIGHT PER FO		I	QUANTITY OF CEME	NT	
7 7/8"	<u>8 5/8"</u> 24# 5 1/2" 14#		1400'		750 sx. 450 sx.		
					·		
						:	
300	0 psi WP double	BOP (1 pip	rogram will con: e ram, 1 blind i	ram). The	e BOP		
300 wi1	The Blowout P O psi WP double 1 be installed w	BOP (1 pip	e ram, 1 blind i	ram). The	e BOP		
300 wil	0 psi WP double	BOP (1 pip	e ram, 1 blind i	ram). The	e BOP		
300 wil	O psi WP double 1 be installed w	BOP (1 pip vhen 8 5/8"	e ram, 1 blind casing is set a	ram). The and cement	e BOP	2	
300 wi1	O psi WP double 1 be installed w DRI	BOP (1 pip when 8 5/8" LLING OPERA	e ram, 1 blind casing is set a TIONS AUTHORIZED	ram). The and cement ARE	e BOP		
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# WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

Creation of FFORD, MITCHELL & MISENBAKER Losse GIFFORD, MITCHELL & MISENBAKER SPOTTED TAIL FEDERAL 2 25-5 Temes 337-E Court 36-2 LEA 2 Actual Reaces Lecidem of Walt Count Level East 1 Count with the second for Walt Count of the tem the North 100 method for the second for the charm marks on the plat below. 30.38.5 The tem the North 100 method for the subject well by colored pacifil of hechure marks on the plat below. 30.38.5 The tem the second different ownership is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and reyally). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated dated by communitization, unitization, force-pooling, etc? Yes No II answer is "no," list the owners and tract descriptions which have netually been consolidated. (Use reverse side of this form if necessary) No allowable will be assigned to the well unit all interests have been consolidated. (Use reverse side of this form if necessary) Sec. 30 T-25-S, R-36-E SPOTTED TAIL FEDERAL *2 SPOTTED TAIL FEDERAL *2 SPOTTED TAIL Sec. 30 T-25-S, R-36-E No allowable will be assigned to the well unit all interests have been consolidated. (Use reverse side of the information, unitization, sion. CERTIFICATION I have the information con- tineed back is in a non-standard unit, climinating such interests, has been approved by the Commis- sion. CERTIFICATION I have the information con- tineed back is in a non-standard unit, climinating such interests, has been approved by the Commis- sion. CERTIFICATION I have the information con- tineed areased as being in the second from the secon	All dist	ances must be from	the outer bou	ndaries of t	the Section	•	
GIFFORD, MITCHELL & MISENDAKER     SPOTTED TAIL FEDERAL     2       Unit Letter     Section     Township     25-5       Actual paraget centor of waits     Base of the section of waits     Designed Accesses       660     feet town the MOTTh     Ince of 660     feet town the East     Ince       3038.5     Designed Accesses     Designed Accesses     Accesses       1. Outline the screage dedicated to the well, outline cach and identify the ownership thereof (both as to working interest and royalty).     Accesses       2. If more than one lease of different ownership is dedicated to the well, have the interests of all owners bees consolidated by communitization, force-pooling, etc?     If more than one lease of different ownership is dedicated to the well, have the interests of all owners bees consolidated by communitization, suitization, force-pooling, etc?       If answer is "not" 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. (Use reverse side of this form if necessary).       No allowable will be assigned to the well until all interests have been consolidated. (Use communitation, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been appeared by the Commission.       SPOT TED TAIL     SPOT TED TAIL       SPOT TED TAIL     SPOT TED TAIL       SPOT TED TAIL     SPOT TED TAIL       SPOT TED TAIL     SPOT TED TAIL </td <td></td> <td>_</td> <td>ease</td> <td>•</td> <td></td> <td></td> <td>Well No.</td>		_	ease	•			Well No.
37       25-S       36 <sup>-</sup> E       Cast of the time be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be light to a set of the time to be the time to be set of the time to be set of the time to be to a set of the time to be time. The time the time to time the time to time to	GIFFORD, MITCHELL & WISENBAK	KER [	SPOTTI	ED TAIL	FEDER/	AL I	2
Actual Factors Learning       25-5       36-E       LEA         660       test town the NOPTH       loss and       660       test town the East         10       Outline the accessed dedicated to the subject well by colored pencil or hackure marks on the plat below.       Provid Lynet if the rest of the subject well by colored pencil 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 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 enswers is "yes," type of consolidation         If answer is "no." list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form in encessary.)         No allowable will be assigned to the well until 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 Commission.         SEC.30       T-25-5, R-36-E         No       If sorts or the information control of the different of the well well well well well well well we	Unit Letter Section Township		Range		County		
Actual promote least location of white       Imme and the set of the subject well by colored peacified here marks on the plat below.         3038.5       Producing parametica       Proot       Designed Acreage: Acreage dedicated to the subject well by colored peacified here marks on the plat below.         1. Outline the acreage dedicated to the subject well by colored peacified here marks on the plat below.       Acreage dedicated to the subject well by colored peacified here marks on the plat below.         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 "yes," type of consolidation	/	25-S	36	-E	LI	EA ····	A Contraction of the second se
Caruad Lyrel Eler.       Device the Arreage       Arreage         3038.5       Producting Formation       Paol       Arreage         1. Outline the acreage dedicated to the subject well by colored pencil of hachare marks on the plat below.       Arreage         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).       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         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 ansigned 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.         SEC.30 T-25-S, R-36-E       Name         Image: SPOTTED TAL       SpotTED TAL         Spot TED TAL       SpotT	Actual Footage Location of Well:	······································					
Caruad Lyrel       Descing Formation       Pool         3038.5       Producting Formation       Arree         1. Outline the acreage dedicated to the subject well by colored pencil of hachure marks on the plat below.       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         If answer is "no?" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary).         No allownels 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.         SEC.30 T-25-S, R-36-E       Name         Pettornal       Now More and complete to the bast of my knowledge and beliet.         No allower, B.       SPOTTED TALL         SPOTTED TALL       SP	660 feet from the Nonth	line and	64	in		Eact	· -
Density Acres         Acres         Density Acres         Outline the acreage dedicated to the subject well by colored peacil 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 interests 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, untilization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.         CERTIFICATION         I hench cently that the information commission.         CERTIFICATION         I hench cently that the information commission.         CERTIFICATION         I hench cently that the information commission.         SPOTTED TAL         SPOTTED TAL         SPOTTED TAL         SPOTTED TAL         SPOTTED TAL         SPOTTED TAL				JU teel	from the	Lasi	The second s
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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?	1. Outline the acreage dedicated to the	e subject well	by colored	pencil or	hachure	marks on th	ne plat below.
deled by communitization, unitization, lorce-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.)	2. If more than one lease is dedicated interest and royalty).	to the well, c	outline each	and iden	ntify the	ownership tl	hereof (both as to working
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.         Image: CERTIFICATION	3. If more than one lease of different or dated by communitization, unitization	wnership is dec , force-pooling.	dicated to th . etc?	ie well, l	nave the	interests of	all owners been consoli-
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 Commis- sion.  CERTIFICATION  I hereby certify that the information con- tained herein is true and complete to the best of my knowledge and belief.  Name  Position  Cempany  Dote  I hereby certify that the uniformation con- tained herein is true and complete to the best of my knowledge and belief.  Name  Position  Cempany  Dote  I hereby certify that the uniformation con- tained herein is true and complete to the best of my knowledge and belief.  Name  Position  Cempany  Dote  I hereby certify that the uniformation con- tained herein is true and complete to the best of my knowledge and belief.  Name  Position  Cempany  Dote  I hereby certify that the uniformation con- tained herein is true and complete to the best of my knowledge and belief.  Name  Position  Cempany  Dote  I hereby certify that the uniformation con- tering development  SPOTTED TAIL  CENTRAL  CETTIFICTEN	Yes No If answer is "	'yes," type of c	onsolidatio	n n			·····
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 Commis- sion. CERTIFICATION I hereby certify that the information con- tained herein is true and complete to the best of my knowledge and belief. Name Position Cempany Date I hereby certify that the information con- tained herein is true and complete to the best of my knowledge and belief. Name Position Cempany Date I hereby certify that the self according SPOTTED TAIL SPOTTED	If answer is "no" list the owners on	d tract desat	tions with 1	<b>t</b>		•••	
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  Company  Dote  Company  Dote  Company  Dote  Company  Company  Dote  Company	this form if necessary)	u uaci uescrip	tions which	nave ac	tually be	en consolida	ated. Use reverse side of
Doted-pooling, of otherwise) of until a non-standard unit, eliminating such interests, has been approved by the Commission.         CERTIFICATION         I hereby certify that the information contained herein 12 true and complete to the best of my knowledge and belief.         SEC.30 T-25-5, R-36-E         Name         SPOTTED TALL	•		·····		•	······	, 
Ston.         CERTIFICATION         I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.         SEC.30 T-25-S, R-36-E         SPOTTED TALL         SPOTTED TALL         SOP 42:20*W         Base 2:20*W         Base 2:20*W         SPOTTED TALL         SPOTTED TALL         FEDERAL #2         SPOTTED TALL         SPOTTED TALL <t< td=""><td>forced-pooling or otherwise les will a</td><td>veil until all in</td><td>iterests have</td><td>e been c</td><td>onsolidat</td><td>ed (by com</td><td>munitization, unitization,</td></t<>	forced-pooling or otherwise les will a	veil until all in	iterests have	e been c	onsolidat	ed (by com	munitization, unitization,
CERTIFICATION I haveby certify that the information con- toined herein is true and complete to the best of my knowledge and belief.  SEC.30 T-25-5, R-36-E Name Position Company FEDERAL #2 660 Company Date I hereby certify that the well becirin aboun an this plat was plotted from field motes and correct to the best of my knowledge and belief. I hereby certify that the well becirin aboun an this plat was plotted from field motes and correct to the best of my knowledge and belief. Dift. The formation of the set of my knowledge and belief. Date Company Date Comp	sion	non-standard u	init, elimina	ting such	interest	s, has been	approved by the Commis-
SEC.30       T-25-S, R-36-E         SEC.30       T-25-S, R-36-E         Name         SPOTTED       TALL         SPOTTED       TALL         SPOTTED       FEDERAL #2         SPOTTED       FEDERAL #1         SPOTTED       FEDERAL #2         SPOTTED       FEDERAL #1         SPOTTED <td>5 kuit.</td> <td></td> <td></td> <td></td> <td></td> <td>·<u>·</u>··································</td> <td></td>	5 kuit.					· <u>·</u> ··································	
SEC.30       T-25-S, R-36-E         SEC.30       T-25-S, R-36-E         Name         SPOTTED       TALL         SPOTTED       TALL         SPOTTED       FEDERAL #2         SPOTTED       FEDERAL #1         SPOTTED       FEDERAL #2         SPOTTED       FEDERAL #1         SPOTTED <td>1</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td>	1		1				
SEC.30 T-25-S, R-36-E     rained herein 13 true and complete to the best of my knowledge and belief.       SPOTTED TAL			!	•			
SEC.30 T-25-S, R-36-E     rained herein 13 true and complete to the best of my knowledge and belief.       SPOTTED TAL			1. <b>1</b> .			1	· · · · · · · · · · · · · · · · · · ·
SEC.30     T-25-5, R-36-E       Name       SPOTTED       FEDERAL #2       SO0*22'0* w       1320.50*       Company       Date       I hereby certify that the well facation       shown on this plat was plated from field       notes of actual surveys       Notes of actual surveys       Name       Postion       SPOTTED TAIL       SPOTTED		•	1			1	
SEC. 30 T-25-S, R-36-E SPOT TED TALL FEDERAL # 2 SOUTH SECTED TALL SECTED TALL U.H. HANDLEY, IN SPOT TED TALL U.H. HANDLEY, IN SPOT TED TALL SPOT T			t -			1	
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### GIFFORD, MITCHELL & WISENBAKER

### **#2** SPOTTED TAIL FEDERAL

1. Geologic name of the surface formation.

Quaternary Alluvium

2. Estimated tops of important geologic markers.

Rustler	1,000'
Salado	1,600'
Tansill	3,150'
Yates	3,350'

3. Estimated depths at which anticipated water, oil, or other mineral-bearing formations are expected to be encountered.

Water - Ground water anticipated 200 - 300' Oil - 3,250'

4. Proposed Casing Program:

String	Size, Weight, Grade	Minimum Condition	Depth Interval
Surface	8-5/8" /24/H-40	Class II	0-1400'
Production	.5'3"/14 /H-40	Class II	0-3300'

Casing strings run will be at least as strong as string shown. Actual pipe run may be different depending on casing available.

5. Minimum specifications for pressure control equipment:

a) Casinghead Equipment

Casinghead: 8-5/8" STC x 4-1/2" 2000 psi WP screwed Tubinghead: 4-1/2" x 2-3/8" 2000 psi screwed Tree: 2-3/8" 2000 psi WP screwed

b) Blowout Preventers

Refer to attached drawing. The BOP will be installed after the 8-5/8 surface casing is set and will be no smaller than 10" API nor less than 2000 psi WP.

c) BOP Control Unit

Remotely located, hydraulically operated.

d) Testing

When installed on the 8-5/8" casing, the BOP will be tested to a low pressure (200-300 psi) and to at least 1500 psi. Thereafter, it will

be tested approximately weekly to 1500 psi. An operational test of the BOP will be performed each round trip but no more than once a day. The pipe ram will be closed around the drill pipe, and the blind rams will be closed while the pipe is out of the hole.

### 6. Type and anticipated characteristics of drilling fluid:

Surface hole will be drilled with a minimum weight fresh water spud mud compatible with operating conditions.

Production hole will be drilled with brine water. Depending on hole conditions and DST and core requirements, the system may be mudded up as follows:

Type: Saturated Brine Weight: 9-10 ppg Funnel Viscosity: 28-35 sec. Water Loss: 10-30 cc. Solids: Minimum pH: 10.5+

Not less than 75 barrels of fluid will be in the pits.

7. Auxiliary Control Equipment:

a) Lower Kelly Cock

b) Full opening ball type safety value to fit each size of drill pipe on the rig floor on trips.

8. Testing, logging, and coring program to be followed:

0 - T.D.: Gamma Ray, Sonic, FDC-CNL, and DLL or DIL 3250-3350: Possible 2DST's depending on shows 3250-3300: Approximate 50' core in pay zone

9. No abnormal temperatures or pressures are anticipated. The pressure can be controlled by the hydrostatic head of drilling fluid in the hole. Hydrogen sulfide gas is expected to be minimal.

10. It is anticipated that the drilling operations will begin on or before Nov. 26, 1978.

## SEC.31, T-25-S, R-36-E LEA COUNTY, N.M.



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A strip or tract of land twenty (20) feet in width, for an access road in, thru and across Section 31, T-25-S, R-36-E, of the Central New Mexico Meridian; said strip or tract or land lying ten (10) feet left of and ten (10) feet right of the following described centerline:

Beginning at a point in the Northeast quarter of the Northeast quarter of said Section 31; said point bearing S 44°06'00" W, a distance of 933.4 feet from the Northeast corner of said Section 31;

THENCE, S 00°52'20" W, a distance of 1320.50 feet to a point; from which said point, the Northeast corner of said Section 31 bears N 18°35'36" E, a distance of 2100.27 feet.

The above described centerline being, in all, a total distance of 1320.50 feet or 80.03 rods in length.

#### SURFACE USE PLAN

Gifford, Mitchell & Wisenbaker - Exploratory Well No. 2 Spotted Tail Federal - Lease No. NM-10195 - 660' FNL and 660' FEL Section 31, 25S-36E Lea County, New Mexico

1. EXISTING ROADS - Detailed map showing drillsite location in relation to a town or known point and all existing roads within three miles of the drill-site are shown on Exhibit "A".

From Jal, go southwesterly on paved road 3 miles to Bennett; continue on improved road approximately 1-1/2 miles to a graded road going westerly. Proceed westerly on graded road 4 miles, then Northerly 1 mile to drillsite.

2. PLANNED ROADS - It is planned to construct approximately 1320' of new road as shown on Exhibit "A". The existing access road will be improved by grading, widening and adding caliche where necessary. Caliche will be hauled from a pit near the Anthony ranch house located on private lands.

1). Width of the new road to be constructed will be approximately 16 feet.

2) No grade change will be made in any part of the existing access road or the new road to be constructed in excess of 5 percent.

3) No turnouts will be necessary.

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4) No special drainage features will be necessary.

5) No culverts will be required.

6) Caliche will be used only on a portion of the road.

- 7) No cattleguards will be required.
- 8) The proposed new road is center-line flagged.

3. LOCATION OF EXISTING WELLS WITHIN TWO MILE RADIUS -

 Water wells - There are windmills located approximately one mile northeast of the drillsite and a water well at the Antbony ranch house approximately
 2 miles southeast of the drillsite.

2) Abandoned wells - Several dry holes are shown on Exhibit "A" within 2 miles of drillsite.

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- 3) Temporarily abandoned wells None
- 4) Disposal vells None
- 5) Drilling wells None
- 6) Producing wells There are three producing wells South and Southeast of drillsite.
- 7) Shut-In wells There is one shut-in well East of drillsite waiting on pipeline ... connection.
- 8) Injection wells None
- 9) Monitoring or observation wells for other resources None
- 4. TANK BATTERIES, PRODUCTION FACILITIES AND LEASE PIPELINES -
  - A. There are tank batteries, production facilities or pipelines within one mile of the location controlled by lessee servicing the wells mentioned in 3(6&7).
  - B. In the event of production, new facilities are shown on Exhibit "B".
    - 1) Proposed location and attendant lines by flagging if off of well pad shown on Exhibit "B".
    - 2) Dimensions of facilities are shown on Exhibit "B".
    - 3) Production facilities will be constructed on drillsite pad using caliche surface.
    - 4) Equipment and pit will be fenced and flagged to protect livestock and wildlife, if necessary.
  - C. Rehabilitation will be done on any disturbed areas no longer needed for operations after completion of the production facilities. This will consist of reshaping the existing surface and seeding as specified.
- 5. LOCATION AND TYPE OF WATER SUPPLY -
  - A. Water will be hauled from an existing water well located approximately three miles southeast of drillsite. In the event brine water is used, it will be hauled by truck from a source outside the area. In the event water is pumped, the pipeline will be laid on the surface of the ground along the access road to the drillsite.

### No water well will be drilled.

- 6. SOURCE OF CONSTRUCTION MATERIALS -
  - A. Caliche will be obtained from a privately owned pit

B. No construction material will be used from Federal or Ladian lands.

C. Caliche secured from private sources will be used where needed on the road and drillsite.

D. All access roads are shown on Exhibit "A"

7. WASTE DISPOSAL -

A. Drill cuttings will be disposed of in the reserve pit.

B. Drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry.

C. Trash, waste paper, garbage and junk will be burned or buried with a minimum of 24" cover. Waste material will be contained to prevent scattering by wind prior to ultimate disposal.

D. Any produced water will be contained in tanks and be disposed of in an approved manner. Oil produced will be stored in tanks until sold, at which time it will be hauled from location.

- .E. Current laws and regulations pertaining to disposal of human waste will be complied with.
  - F. If productive, maintenance waste will be placed in special containers and buried or hauled away periodically.

8. ANCILIARY FACILITIES - No camps, airstrips, et cetera, will be constructed.

9. WELL SITE LAYOUT -

A. Refer to Exhibit "B" for well site layout.

· B. Dimensions may vary slightly depending on size of drilling rig available.

- C. Terrain at the well site is very flat as shown on Exhibit "B".
- D. The pad will be topped with material obtained from the reserve pit or material hauled in from private property traversed by the access road.

E. The reserve pit will be approximately 125' x 150' top width.

10. RESTORATION OF SURFACE -

- 1) At the time of completion and abandonment of the well, the pits will be backfilled and the entire disturbed area will be sloped to coincide with
  - the adjacent undisturbed area. The top soil will be distributed over the entire disturbed area. Prior to leaving the drillsite upon rig move out and before reshaping any pit that is to remain open for drying will be fenced until backfilling and reshaping can be done.
- 2) When well is abandoned the new road will be rehabilitated as per BLM recommendations.

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	3)	Any rehabilitation of the drill pad will comply with BLM specifications.
	4)	Any oil on pits will be removed or otherwise disposed of to USGS and BLM approval.
	5)	Rehabilitation operations will be completed as soon as practical after abandonment of the well and no later than the Fall after abandonment.
11.	oti	IER INFORMATION -
	۸.	Terrain - Flat prairie.
	в.	Soil ~ Sandy.
	c.	Sparse vegetation - Mesquite and some native grasses.
	D.	There are no buildings, ponds, water wells, archeological, historical or cultural sites in the immediate area.
	E.	Surface use is grazing.
•	F.	Effect on Environment - Drillsite, which is in nearly flat semi-arid, desert country, is in a low environmental risk area. The total effect of drilling and producing in this area would be minimal. No known archeological, historical, or cultural sites exist in the drill or road areas.
)	G	. Surface ownership - the drillsite and new access road is located on BLM lands.
	H	. Open Pits - All unattended pits containing mud or other liquids will be fenced.
•	I	. Well sign - Sign identifying and locating well will be maintained at drillsite commencing with the spudding of the well.
12	2. 0	DPERATOR'S REPRESENTATIVE - Field representative who can be contacted concerning compliance of this Surface Use Plan is:
	•	Jim Salners 1280 Midland National Bank Tower Midland, TX 79701 Office Phone: (915) 682-6282 Home Phone: (915) 683-8927
1	3.	CERTIFICATION - I hereby certify that I, or persons under my direct super-

vision, 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 JRFACE USE PLAN

Gifford, Mitchell & Wisenbaker and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. A copy of this plan will be posted at the well site during the drilling of the well for reference by all contractors and subcontractors.

GIFFORD, MITCHELL & WISENBAKER

24/78 Date

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By Joe N. Gifford





