DRILL IS DEEPEN PLUG BACK office State or Charles IS Bindle IS RECENTED* office State or Charles IS Bar 4 Federal charles or Orderstow Bar 4 Federal charles or Orderstow Bar 4 Federal charles or Orderstow MAY 19'88 charles or Orderstow MAY 19'88 charles or Orderstow Bar 4 Federal charles or Orderstow MAY 19'88 charles or Orderstow MAY 19'88 charles orderstow Sec. 4-255-29E charles orderstow Sec. 4-255-29E charles orderstow Barres orderstow charles orderstow 1650' from lease 16. No. or actes in Lines charles orderstow 1600' from drig unit 640 charles orderstow 11000 charles orderstow 3008 13900 Barres orderstowerstow charles orderstowerstow 3008 13900 Barres orderstowerstowerstowerstowerstowerstowerstowerstowerstowerstowerstowerstowerstowerstowerstowerstowerstow	Form 3160-3 (November 1983) (formerly 9-331C)	BUR	TMENT	ED STATES OF THE I LAND MANAG	NTE GEME	NT	SUBMIT IN (Other Instru reverse s	lde)	5. LEASE DESIGNATIO NM 15302 6. IF INDIAN, ALLOTT	N AND SEBIAL NO.	
b. THE OF WELL CALL CALL OF OTHER AND BUDGET AND CALLS AND CHARMENTING PROGRAM b. THE OF ALL CALL CALL CALL OF ALL CALL OF A	1a. TYPE OF WORK								7. UNIT AGBEEMENT	NAMB	
And to Preserve out out out of the producting CoTulsa Div. Bar 4 Federal CMG Producing CoTulsa Div. NAY 19'88 Box 2115, Tulsa, CK 74101-2115 State requirements/ Corror of watch (Beprint control clearly and its accordance with any State requirements/// C. D. WY Rustler Bluff, Atoka 2310 ⁶⁷ FSL & 1650' FEL Sec. 4-255-29E ARTESIA, OFFICE' Rustler Bluff, Atoka 11 association of the production of the p	_									-	
CMG Producting CoTulsa Div. Image: Sources of Contracts of Co	WELL		OTHER				KEC BAVER				
Laboration of Preserved MAY 19 '88 2 Dock 2115, Tullsa, OK 74101-2115 200(ptp)Mo root, or without a failed in accordance with any State requirements' Directory of Walk (Beport Jocation deaty and in accordance with any State requirements' Directory of Walk (Beport Jocation deaty and in accordance with any State requirements' Directory of Walk (Beport Jocation deaty and in accordance with any State requirements' Directory of Walk (Beport Jocation deaty and In accordance with any State requirements' Directory of Walk (Beport Jocation deaty and In accordance with any State requirements' Directory of Walk (Beport Jocation deaty and In accordance with any State requirements' Directory of Active and State requirements' Directory and State Internet and Directory requirements' Directory and State Internet and Directory requirements' Directory		ng Co -Tuls	a Div							ral	
Box 2115, Tulsa, OK 74101-2115 L Covernor or watch Garbor Charles denty and in accordance with any State requirement? D. IK At proposed prod. tose At a tose at the top. Fr. GR. sec) 212. At PROJ. At the tose At a tose at the top. Fr. GR. sec) 214. To attest of the tase At a tose at the top. The top. At the top. The top. At the top. A	3. ADDRESS OF OPERAT	ng coruis		<u></u>			MAY 19'8	8	2		
2310** FSL & 1650* FEL Sec. 4-25S-29E ARTESIA, OFFICE 11. sec. 7. A. M. GO BALLARA A to proposed prod. some Sec. 4-25S-29E Sec. 4-25S-29E 4 DURANCE IN MILES AND INSECTION FROM NELSEST TOWN OF DOST OFFICE* 12. COUNTY OF PARAMENT 13. STATE 5 miles SE of Malaga 12. COUNTY OF PARAMENT 13. STATE 2 DURANCE FROM PRODUCTION FROM NELSEST TOWN OF DOST OFFICE* 10. NM. OF ACEES IN LEASE 3 DURANCE FROM PRODUCTION FROM NELSEST TOWN OF DOST OFFICE* 10. NM. OF ACEES IN LEASE 3 DURANCE FROM PRODUCTION FROM NELSEST 10. NO. OF ACEES IN LEASE 3 DURANCE FROM PRODUCTION FROM PRODUCTION FROM PRODUCTION CONTONT 3008 3 DURANCE FROM PRODUCTION FROM PROM PRODUCTION FROM	Box 2115, T	ulsa, OK 7	4101-2	2115			-	<u> </u>			
At proposed prod. 2000 Sec. 4-25S-29E 4. DATANCE IN MILLAS AND DIRACTION FROM MALEST TOWN OR PORT OFFICE* 12. COUNTY OR PARINES 5. miles SE of Malaga 16.50° from drig unit 6. DOTANCE TOW NEWDOWSE 1650° from drig unit 6. DOTANCE TOW NEWDOWSE 16.50° from drig unit 6. DOTANCE TOW NEWDOWSE 16.50° from drig unit 6. DOTANCE TOW NEWDOWSE 10. THEOREM INC. AND COMMEND DETTH 7. DOL OF ACREE AND DIRACTION FROM THEOREM OF THE SOUTH TO THE SOUTH	At surface	(Report location c	learly and	in accordance wit	h any	State req		11KJ			
4. OUTLANCE IN MICHE AND DIRECTION FROM NEAREST TOWN OF POST OFFICE* 12. COLUTT OF FASLES I. 5. miles SE of Malaga 15. NO. OF ACKES IN LEASE 6. MATAKET ROW FROMED' 1650' from lease 16. NO. OF ACKES IN LEASE 17. NO. OF ACKES IN LEASE 17. NO. OF ACKES IN LEASE 18. FARLEST 18. DETACKET ROW FROMENCE 19. TOUR OF ACKES IN LEASE 19. DETACKET ROW FROMENCE OFFICE* 20. ROTACT OF ACKES IN LEASE 19. DETACKET ROW FROMENCE OFFICE* 20. ROTACT OF ACKES ADDRESSED 19. DETACKET ROW FROMENCE OFFICE* 3008 19. DETACKET ROW FROMENCE OFFICE* 20. ROTACT OF ACKES ADDRESSED 19. DETACKET ROW FROMENCE OFFICE* 20. ROTACT OF CASES 10. TRANSPORT CONSTRUCTION 3008 11. TOUR OFFICE 20. ROTACT OF CASES 20. ROTACT OF ACKEST ADDRESSED 20. ROTACT OF CASES 20. ROTACT OF ACKEST ADDRESSED CASES 13900 21. STRUCT OF CASES 21. STRUCT OF CASES 21. STRUCT OF CASES 22. STRUCT OF CASES 22. STRUCT OF CASES 22. STRUCT OF CASES 23. STRUCT OF CASES 23. STRUCT OF CASES 24. A T GR 23. STRUCT OF CASES 24. A T GR 23. STRUCT OF CASES 24. A T GR 23. STRUCT OF CASES 25. STRUCT OF CASES 23. STRUCT OF CASES 26. STRUCT OF CASES <td>2310' FSL 8</td> <td>1650' FEL</td> <td>Sec. 4</td> <td>-255-29E</td> <td></td> <td></td> <td>ARTESIA, OFFIC</td> <td>CE VI</td> <td>AND SURVEY OR</td> <td>K BLK. Area</td>	2310' FSL 8	1650' FEL	Sec. 4	-255-29E			ARTESIA, OFFIC	CE VI	AND SURVEY OR	K BLK. Area	
5 miles SE of Malaga Eddy NM 5 miles SE of Malaga Eddy NM 6 miles SE of Malaga 1650' from lease is 16.00 of active in Lease in Constraints (State and Constraints (State a	At proposed prod. :	ione							Sec. 4-25S	-29E	
S. Distance From PEOREPORED 1650' from Tease 10. NO OF ACKES IN LEASE 17. BOL OF ACKES INTO THE SALE DISCOUNTS OF ACKES AND LEASE Distance To NARREST 040' 320 Distance To PROFERE CONTROLLING, CONFERENCE 3008 10. PROFERE DEFTH 20. ROTART OR CALLE TOULS To NARREST WELL, DATLING, CONFERENCE 3008 10. PROFERE DEFTH 20. ROTART OR CALLE TOULS Rotary 00 AFLED TO NOT THE MARKET TOULS 3008 10. PROFERE DEFTH 20. ROTART OR CALLE TOULS Rotary 00 AFLED TOULS 00 AFLED TOULS Rotary 22. AFROS. DATE WORK WILL STATE 2494.7. GR PROFOSED CASING AND CEMENTING PROGRAM SETTING OFFTH QUANTITY OF CEMENT See attached Drilling Plan Exhibit "B") 22. AFROS. DATE WORK WILL STATE See attached Drilling Plan Exhibit "B") 20. NOTATE OF COMENT "G" Blow Out Preventor Equipment "D' "T' T''''''''''''''''''''''''''''''''''''	4. DISTANCE IN MILE	S AND DIBECTION I	BOM NEAR	EST TOWN OR POS	T OFFI	CE+			12. COUNTY OR PABIS	H 13. BTATE	
Proposed to take to the provided to the proposed to the proposed of the proposed to the proposed the proproposed to the proposed to the proposed to the propose										NM NM	
Struct Food Ender Decrement 3008 15. FRUPPORED DEFTH 20. ROTART OF CALLE TOLLE Rotary Revenue Food Factor Food 3008 13900 22. APPROX. DATE WORK WILL BELLET Revenue Food Second Factor Food 20. ROTART OF CALLE TOLLE Rotary 22. APPROX. DATE WORK WILL BELLET Revenue Food Second Factor Food Second Factor Food 22. APPROX. DATE WORK WILL BELLET Second Factor Food Second Factor Food Second Factor Food Second Factor Food Second Factor Food Second Factor Food Second Factor Food Second Factor Food "B" Drilling Plan Exhibits Attached The Production Factor Food Second Factor Food Second Factor Food "B" Voice Use Plan "C" Blow Out Preventor Equipment The Production Factor Factor Food Second Factor Food Second Factor Food "G" Wellsite Layout "Not space Use Plan Factor Factor Food Second Factor Food Second Factor Food "G" Wellsite Layout "Not space Use Productive Eace Back Productive Eace Eace Productive Eace Back Factor Food Second Factor Food "G" Wellsite Layout "The Proposal is to drill or deepen directionally, give petiteent data on subsurface locations and measured and true vertical depta. Give blow out eventer program. If any Second Factor Factor Factor	LOCATION TO NEAR					-	ES IN LEASE	17. NO. 0 TO TH	HIS WELL		
TO PARABET WELL, DALLING, COMPLETED. a AFFLET PROVEND WHENCH TO F. BT. GR. etc.) 3008 13900 Rotary 2044.7 GR 22. APPROX. DATE WORK WHENCH TO F. BT. GR. etc.) 22. APPROX. DATE WORK WILL START* 2044.7 GR PROPOSED CASING AND CEMENTING PROGRAM state or ROLE aits or casing See attached Drilling Plan Exhibit "B") Exhibits Attached "A" Plat (NMOCC Form C-102) """ "B" Drilling Plan Exhibits Layout > not approved under this APD "E" Vicinity Sketch, Access Roads """ "F" Production Facilities Layout > not approved under this APD """" "G" Wellsite Layout """ "H" Existing Wells Within One Mile """ Metric or scale and proposed betw productive some and proposed betw pro	(Also to nearest d	rig. unit line, if a	igy tr								
1. MEWATIONS (Show whether DP, RT, GR, etc.) 22. APPROX. DATE WORK WILL BTART* 244.7 GR PROPOSED CASING AND CEMENTING PROGRAM BERNING OF COLSPANSION OF CASING WEIGHT PERFORM See attached Drilling Plan (Exhibit "B") Exhibits Attached "A" Plat (NMOCC Form C-102) "B" Drilling Plan "C" Blow Out Preventor Equipment "O" Surface Use Plan "E" Vicinity Sketch, Access Roads "F" Approduction Facilities Layout = not approved under this APD "G" Wells the Layout "H" Existing Wells Within One Mile "H" Existing Wells Within One Mile "H" State of the proposed Process Proc	TO NEAREST WELL,	DRILLING, COMPLE		3008					• .		
A PROPOSED CASING AND CEMENTING PROGRAM BIRE OF HOLE SIZE OF CASING WEIGHT FER FOOT SETTING PROFIL See attached Drilling Plan Exhibit "B") QDANTIFY OF CEMENT Exhibits Attached Trilling Plan Exhibit "B") QDANTIFY OF CEMENT Exhibits Attached "A" Plat (NMOCC Form C-102) "B" Profuse Come C-102) "B" Drilling Plan "C" Blow Out Preventor Equipment "Do Weight" Frequence Profuse Come Come C-102) "B" Uricinity Sketch, Access Roads "F" Production Facilities Layout > not approved under this APD "C" "C" "G" Wellsite Layout "H" Existing Wells Within One Mile "C" "C" "C" "ABOVE SPACE DESCENE PROFORED PROGRAM : If proposal is to deepen or plug back, give data on present productive some and proposed new productive some and true vertical depths. Give blowout werener program. If nz. Multiple MENDE Multiple Multiple Multiple Norte Space for Pederal or State office UK) True Engr. Tech. Date 4/15/88	1. ELEVATIONS (Show)	whether DF, RT, Gl	B, etc.)	••••••				·	22. APPROX. DATE W	ORK WILL START*	
State or HoLE BILE OF CASING NELONT FEB FOOT SETTING PROGRAM See attached Drilling Plan Exhibit "B") QUANTITY OF CEMENT See attached Drilling Plan Exhibit "B") QUANTITY OF CEMENT Exhibits Attached Trilling Plan Exhibit "B") QUANTITY OF CEMENT "A" Plat (NMOCC Form C-102) "B" Drilling Plan Trilling Plan Trilling Plan "C" Blow Out Preventor Equipment "D" Trilling Plan Trilling Plan "C" Blow Out Preventor Equipment "D" Trilling Plan Trilling Plan "G" Wellsite Layout Not approved under this APD Trilling Plan Trilling Plan "G" Wellsite Layout Not approved under this APD Trilling Plan Trilling Plan "G" Wellsite Layout Not approved under this APD Trilling Plan Trilling Plan "G" Wellsite Layout Not approved under this APD Trilling Plan Trilling Plan "G" Wells Within One Mile Trilling Plan Trilling Plan Trilling Plan "G" Wells Within One Mile Trilling Plan Trilling Plan Trilling Plan Trilling Plan Mereore program If Approval	2694.7 GR								Upon appro	val	
See attached Drilling Plan Exhibit "B") Exhibits Attached "A" Plat (NMOCC Form C-102) "B" Drilling Plan "B" Drilling Plan "C" Blow Out Preventor Equipment "D" "D" Surface Use Plan "E" "T" "E" Vicinity Sketch, Access Roads "F" Production Facilities Layout - not approved under this APD "T" "G" Wellsite Layout "Not for the proposal is to deepen or plug back, sive data on present productive some and proposed new productive wone and proposed new productive wone and true vertical depta. Give blowout werener program. If any. MONED	3. 4		PI	ROPOSED CASIN	IG AN	D CEME	NTING PROGRA	M			
Exhibits Attached "A" Plat (NMOCC Form C-102) "B" Drilling Plan "C" Blow Out Preventor Equipment "D" Surface Use Plan "E" Vicinity Sketch, Access Roads "H" Production Facilities Layout - not approved under this APD "G" Wellsite Layout "H" Existing Wells Within One Mile "H" Existing Wells The Order of	SIZE OF HOLE	SIZE OF CA	81NG	WEIGHT PER FO	от	SET	TING DEPTH		QUANTITY OF CEMI	INT	
"A" Plat (NMOCC Form C-102) "B" Drilling Plan "C" Blow Out Preventor Equipment "D" Surface Use Plan "E" Vicinity Sketch, Access Roads "F" Production Facilities Layout - not approved under this APD "G" Wellsite Layout "H" Existing Wells Within One Mile "H" Existing Wells Within One Mile "Above space pescense peopesed peopesam: If proposal is to deepen or plug back, give data on present productive some and proposed new productive me. If proposal is to drill or deepen directionally, give petitept data on subsurface locations and measured and true vertical depths. Give blowout werenter program If any. BIGNED	See attache	d Drilling	Plan (Exhibit "B	")		·				
ne. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout eventer program, if any. SIGNED	"A" Plat (N "B" Drillin "C" Blow Ou "D" Surface "E" Vicinit "F" Product "G" Wellsit	MOCC Form C g Plan t Preventor Use Plan y Sketch, A ion Facilit e Layout	Equip ccess ies La	Roads yout > not	app	 roved l	under tl	u`s AP		ECEIVED	
	one. If proposal is t reventer program, if s i. SIGNED	o drill or deepen of ny. And Ac		iy, give pertinent Mill	data -	on subsur	face locations an	esent produ d measured	i and true vertical dept	hs. Give blowout	
APPROVED BY TITLE TITLE DATE 518-51	PERMIT NO.			<u> </u>		APPROVA	L DATE			- C 17	
	APPROVED BY	···· ·			LE	General Al	به اعتمادین		DATE	18-88	

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

IW MEXICO OIL CONSERVATION COMM •---WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distances must b		daries of the Se	ction.	Weil No.
		1	Lease	CNG BAI	R 4 FEDERAL	2 ven No.
CNG PRODUCING CO.			Range	Coun		,
	Section	25 SOUTH	29 EAST		ED	DY
tual Footage Loc	cation of Well:					
2310	feet from the	south line a	nd 1650	<u>feet from</u>	the east	line
ound Lyvel Elev.	Producing F		Pool DUN Rustle	c Bluff	Atoka	Dedicated Acreage: 320 Acres
2964.7	Htok				·	
2. If more the		icated to the subject is dedicated to the w				hereof (both as to working
 If more the dated by the dated	nan one lease of communitization	n, unitization, force-po f answer is "yes," typ	oling.etc? e of consolidation	ı	<u></u>	all owners been consoli-
this form	if necessary.)	igned to the well until	all interests have	e been conso	lidated (by con	ated. (Use reverse side of munitization, unitization, a approved by the Commis-
		1				CERTIFICATION
	l	37	o Acres Ass	signed		and the set of the second second
		8	ł			certify that the information con- trein is true and complete to the
	ł		4		1.1	y knowledge and belief.
	•	1	1 			2. P
	1		• . -		Name	Wan Dary
					- Susa	n Lacy
	1		1		Resition	
	1	e e	i		Engir	eering Technician
	1	1	1		Company	DI: CTLD
	i	1	1		CNG	Producing Co-Tulsa Di
	1	5	1		Date	6, 1988
	I	4	•		1	
Ĺ		1	1		1º 1	
	<u></u>	1 205	9.5'	<u></u>		
	<u> </u>	295	9.5'12961.7'	· 1650'	1	certify that the well location
		à		- 1650'	i i i i i i i i i i i i i i i i i i i	certify that the well location This plat was platted from field
		à			i i hernby i shown oi i notes st	 certify that the well location this plat was platted from field actual surveys mode by me or
		à			i i hernby shown of notes st i under mj	 certify that the well location this plat was plotted from field octual surveys mode by me or supervision, and that the same
		à			I hernby shown o notes st under m is true	 certify that the well location this plat was platted from field actual surveys made by me or supervision, and that the same and correct to the best of my
		à	2.6 ⁴ 29 70.3 ⁴		I hernby shown o notes st under m is true	 certify that the well location this plat was plotted from field actual surveys mode by me or supervision, and that the same
		à	2.6 ⁴ 29 70.3 ⁴		I hernby shown o notes st under m is true	 certify that the well location this plat was plotted from field actual surveys mode by me or supervision, and that the same and correct to the best of my
		à			I hernby shown of notes st under my is true knowled	certify that the well location in this plat was plotted from field octual surveys mode by me or r supervision, and that the same and correct to the best of my ge and belief.
		à	2.6''29 70.3'		l hernby shown ou notes st under my is true knowled Date Surve Marc	v certify that the well location in this plat was plotted fram field actual surveys made by me or r supervision, and that the same and correct to the best of my ge and belief. yed h 26,1988
		à	2.6''29 70.3'		I hernby shown or notes st under my is true knowled Date Surve Marc Registered	v certify that the well location in this plat was plotted fram field actual surveys made by me or r supervision, and that the same and correct to the best of my ge and belief. yed h 26,1988 Professional Engineer
Contraction of the second seco		à	2.6''29 70.3'		I hernby shown or notes st under my is true knowled Date Surve Marc Registered	v certify that the well location in this plat was plotted fram field actual surveys made by me or r supervision, and that the same and correct to the best of my ge and belief. yed h 26,1988
		à	2.6''29 70.3'		I hernby shown or notes st under my is true knowled Date Surve Marc Registered	v certify that the well location in this plat was platted fram field actual surveys made by me or r supervision, and that the same and correct to the best of my ge and belief. yed h 26,1988 Professional Engineer
		à	2.6''29 70.3'		I hernby shown or notes st under my is true knowled Date Surve Marc Registered	r certify that the well location in this plat was plotted from field actual surveys made by me or r supervision, and that the same and correct to the best of my ge and belief. yed h 26,1988 Professional Engineer id Surveyor



à

.





Exhibit "B"

ONSHORE OIL AND GAS ORDER NO. 1

Drilling Plan

CNG Producing Company Bar 4 Federal No. 2 Sec. 4-25S-29E 2310' FSL & 1650' FEL Eddy Co. New Mexico

1. Estimated Tops of Important Geologic Markers

ì

Formation	Depth	SS
Delaware Mtn. Group Wolfcamp Atoka "Bank" LS Lower Atoka LS Morrow "A" SS M.Morrow L. Morrow TD	2950 10150 12550 12650 13150 13450 13850 13900	+35 -7165 -9565 -9665 -10165 -10465 -10865

2. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Formation	Depth	SS
Wolfcamp	11150	Gas
Strawn-Atoka	12350	Gas
Atoka Clastics	12450	Gas
Atoka Bank LS	12600	Gas
Morrow Clastics	13150	Gas

3. Operators Minimum Specifications for Pressure Control

(See Exhibit "C")

Exhibit "C" is a schematic diagram of the BOPE. BOP's and choke manifold will be installed and pressure tested before drilling out 13 3/8" casing cement plugs. BOP's and choke manifold will be tested to 5,000 psi and annular type preventers will be tested to 1,500 psi. Pipe rams will be operated daily and blind rams as possible.

Drilling Plan Bar 4 Federal 2 Page 2

Proposed Casing Program 4.

Size of <u>Casing</u>	SJS HOLE Setting Weight & Grade SIZE Depth	Quantity of Cement
30" 20" 13 3/8" 10 3/4" 10 3/4"	Conductor $0-66'$ 94# H-40 $26'', 0-625'$ 61# K-55 $17''_2, 0-3100'$ 55.5# P-110 $\begin{cases} 12'/4, 0-8400' \\ 8400-10, 400' \end{cases}$	1250 SXSCHOULATE 1250 SXSCHOULATE 3100 SXSCIRCULATE 900 SXS (total for 10 3/4" string)
7 5/8" (liner) 5 1/2" (liner)	$33.7\#$ S-95 $9\frac{1}{2}^{\prime\prime}$ $10000-12555$ $17.0\#$ S-95 $6\frac{1}{2}^{\prime\prime}$ $12450-14000$	825 SXS 200 SXS

5. Proposed Mud Program

<u>Depth In</u> (ft		Type Mud	Weight (ppg)	Viscosity (sec, AP		Mater Loss (cc/30M)
From	To					
0 625 3100 10400	625 3100 10400 12550	Spud Mud Brinewtr Cut Brine Cut Brine	8.4-9.0 10.0-10.2 9.1-9.3 10.0-14.0	28-30	10.0 10.0-10.1 10.0-10.1 10.0-10.1	5 N/C
12550	13900	Water xcPolymer	10.0-11.0	36-40	10.0	4-5

Auxiliary Equipment to Be Used 6.

- Kelly Cock A)
- Full opening valve on floor with DP connection for use when Kelly is not in drill string. B)

Testing, Logging and Coring Program 7.

Mud Logging: Unit on location from 2850' to TD.

Five DST's are anticipated. See No.2 "Estimated Depths of anticipated Water, Oil, Gas or Minerals" Testing: for DST intervals.

Coring: None.

Log/Interval: CNL-LDT,MLL,BHC Sonic, & DLL-MSFL or DI-SFL/2950' to TD; CNL/Surface to 2950'

Drilling Plan Bar 4 Federal 2 Page 3

8. Any Abnormal Pressure or Temperatures

Anticipated possible abnormal pressures from Wolfcamp through the Atoka. The formations to be penetrated are not known to contain H_2S gas. Maximum anticipated BHP is 8,000 psi at total depth.

9. Anticipated Starting Date and Duration of Operations

Starting Date: July 1, 1988

Duration: 85 days



