becember 1990) DEPARTME POOL 0001 40,244 Budget Bureau No. 1004-0136 BUREAU OF SFF. DATE 11,5,444 State Designation and Setial No. NM-14331 APPLICATION FOR PERMIT TO DRILL OR DEEPEN 5. Lease Designation and Setial No. NM-14331 6. If Indian, Alottee or Tribe Name 1a. Type of Work DRILL DEEPEN 6. If Indian, Alottee or Tribe Name 7. H Unit or CA, Agreement Designation 1b. Type of Weil GAS OTHER MULTIPLE ZONE 8. Weil Name and Number DIL GAS OTHER MULTIPLE ZONE 8. Weil Name and Number 2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC. 4 8. API Well No. 8. API Well No. 3. Address and Telephone No. P.O. Box 3109, Midland Texas 79702 688-4605 8. API Well No. 10. Field and Pool, Explortory Area 14. Distance In Mises and Direction from Nearest Town or Pool Office* 32.5 MLEEWEST OF FUNCE, NM 11. SEC., T., R., M., or BLK. and Survey or Area 15. Distance From Proposed Location to Nearest Town or Pool Office* 32.5 MLEEWEST OF FUNCE, NM 12. Country or Paish 13. State 16. Distance In Mises and Direction to Nearest Town or Pool Office* 12.07 12. Aproc. Dais Work Wiii Start* 16. Distance From Pro		M. OIL CONS. CONS. D. BOX 1980 DRBS, NEW MEXIC		13331	ب ر .			
BUREAU OF Leve: DATE 11/5 / 46 BUREAU OF Leve: Date 100, 100 BUREAU OF APPLICATION FOR PERMIT TO DRILL OR DEEPEN F. 1 Unit or CA. Agreement Designation NM 1031 BUREAU OF BUREAU OF THE A DEEPEN I THUM OF CA. Agreement Designation NM 1031 BUREAU OF THE A APPLICATION FOR PERMIT TO DRILL OR DEEPEN F. 11 Unit or CA. Agreement Designation NM 1031 BUREAU OF THE A APPLICATION A PRODUCTION INC. 4 F. API Wal No E. API Wal Wal API	•			11 DARO			FORM APP	ROVED
JBMIT IN TRIFLICATE ELF: DATE JL/J.S./W. Eprice: Description and Smith Not APP IND J. 2.0.2.5.7.3.2.0.0 5. Lesse Designation and Smith Not APPLICATION FOR PERMIT TO DRILL OR DEEPEN 5. Lesse Designation and Smith Not 1s. Type of Well DEEPEN 5. Lesse Designation and Smith Not 1s. Type of Well DEEPEN 5. A More and Runnear 1s. Type of Well DEEPEN 5. A More and Tabphone No. 6. A More and Tabphone No. 2. Name of Deventor TEACC EXPLORATION & PRODUCTION INC. 4. 3. Address and Tabphone No. 0. Box 3100, Midand Tessa 70702 68-4600 9. AM Weal No. 1. Casterio of Well Report Description Idealy and In econdations with any State megalements	December 1990)		POOL 2202	HUN97	•	Budg	jet Bureau N	lo. 1004-0136
AP: ND 30.025-33646 5. Lease Designation role and No. NM 4531 APPLICATION FOR PERMIT TO DRILL OR DEEPEN 0. If index, Advises or Trills Name 1s. Type of Work DBLL DEEPEN 0. If index, Advises or Trills Name 1s. Type of Work DEEDEN 0. If index, Advises or Trills Name 20. KL WeiL OTHER MUTTILE ZONE 21. Kuss of Departure TEXACO EXPLORATION & PRODUCTION INC. 4 22. Mains of Departure TEXACO EXPLORATION & PRODUCTION INC. 4 3. Address and Telephone No. P.O. Box 3100, Melland Tess 79702 688-4000 8. API Weil No. 3. Location of Weil Report location dearly and is accordance with any State requirements. '1 10. Field and PeoL, Explortary Area 10. Field and PeoL Reports or Area SAME 10. Field and PeoL, Explortary Area 13. Butters G. : 1880 Feel From Title Notifitie 13. State 14. Default of From Pospeed Location to Namerel Property or action Title Notifitie 13. State MM 15. Default of From Pospeed Location to Namerel Property or action to Reserver or Area 58507 13. State 15. Default of From Pospeed Location to Namerel Property or action to Reserver or Area 58607 13. State 15. Default of Fr			FEE DATE	11/5/46		Εφ	ires: Decerr	nber 31, 1991
APPLICATION FOR PERMIT TO DRILL OR DEEPEN In Type of Weit DRIL DEEPEN Ib Type of Weit OTHER SINGLE ZONE Ib Weit OTHER MULTIPLE ZONE Ib Weit OTHER MULTIPLE ZONE Ib Address and Telephone No. P.O. Box 3109, Middend Teasa 79702 BB8-6000 Ib Address and Telephone No. P.O. Box 3109, Middend Teasa 79702 BB8-6000 Ib Address and Telephone No. P.O. Box 3109, Middend Teasa 79702 BB8-6000 Ib Later Co. 1: 1980 Feed From The NORTH Like and 1880 Feed From The EAST Later Co. 1: 1980, Feed From The NORTH Like and 1880 Ib Later Co. 1: 1980 Feed From The NORTH Like and 1880 Feed From The EAST Later Co. 1: 1980, Feed From The NORTH Like and 1880 Ib Delance Is Numeral Dreaming on Middend Team of Policy States meadmements. 1: Ib Delance State Middend Team of Policy Middend Team of Numeral Policy on Middend Policy On Middend Team of Policy On Middend Tea	DOMIT IN TRIFLICATE		1	0.025-3366	7	5. Lease Design		
The Type of Well DELPTH SINGLE ZONE Image: Contract of the type of typ	A	PPLICATION FOR P	ERMIT TO DRILL	OR DEEPEN		6. If Indian, Alot	tee or Tribe	Name
The Type of Well DELPTH SINGLE ZONE Image: Contract of the type of typ	1. Turne of Work			- • •		7 If light or CA	Agreement	Designation
DATE DATE Description Build Laber A <td>1b. Type of Well</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>- Brooman</td> <td></td>	1b. Type of Well						- Brooman	
TEXACC EXPLORATION & PRODUCTION INC. 4 3. Address and Talephone No. P.O. Box 3109, Midland Texas 79702 688-4606 9. API Well No. 3. Address and Talephone No. P.O. Box 3109, Midland Texas 79702 688-4606 9. API Well No. At Surface 10. Field and Pool, Explortory Area 10. Field and Pool, Explortory Area 10. Field and Pool, Explortory Area At Surface SAME 10. Field and Pool, Explortory Area 11. SEC, T., R. M., or BLX. and Burvey or Area 4. Distance in Miles and Direction to Named Pool Totics' 11. SEC, T., R. M., or BLX. and Burvey or Area 12. County or Parity 13. Bitale 15. Detance From Proposed Location to Named Pool Totics' 16. No. of Acres in Lease 17. No. of Acres Assigned to This Well 16. Detance From Proposed Location to Named Pool Totics' 13. Bitale 13. Bitale 16. Detance From Proposed Location to Named Pool Totics' 13. Bitale 13. Bitale 17. No. of Acres Assigned to This Well 13. Bitale 13. Bitale 18. Detances from Proposed Location to Named Pool Totics' 13. Bitale 13. Bitale 18. Detances from Proposed Location to Named Pool Totics' 13. Bitale 13. Bitale 18. Detances from Proposed Location to Named Pool Totics' 13. Bitale 13. Bitale								
a. Address and Talephone No. P.O. Box 3109, Midland Texas 75702 B. Address and Talephone No. P.O. Box 3109, Midland Texas 75702 B. Location of Well (Report location clearly and in socordance with any State requirements.*) I. Sec. 19, M. or BiLL WARE I. Sec. 30, Township 21-5, Range 32-E I. Sec. 7, R. M., or BiLL WARE II. Sec. 7, S. C. M., D. WARE II. Sec.	2. Name of Operator	TEXACO EXPLOR	ATION & PRODUCTIO	DN INC.				
At Surface 10. Feel From The NCRTH Line and 1980 Feel From The EAST Line 10. Field and Foot. zone SAME See. 30. Township 21.5, Range 32.E 4. Distance in Miles and Direction from Nearest Town or Post Office* 12. County or Parish 13. State 15. Distance From Proposed Location to Nearest Property or See Unc. F. (As to nearest dir, Multike, Issue) 600 15. No. of Acres in Lesse 17. No. of Acres Assigned To Toke 40 16. Distance From Proposed Location to Nearest Weil, Drilling, 13. State 13. State 13. State 16. Distance From Proposed Location* to Nearest Weil, Drilling, 13. State 13. State 40 16. Distance From Proposed Location to Nearest Weil, Drilling, 13. State 13. State 40 17. No. of Acres Assigned For, On The Lesse, P. 13. State 40 10.000 10.000 18. Distance From Proposed Location View Meil, Drilling, 13.24 ROTARY 20. Rotary or Cable Tools ROTARY 18. Distance From Proposed Location View Meil, Drilling, 13.24 ROTARY 20.000 10.000 10.000 10.000 18. Distance From Proposed Location View Meil, Drilling, 13.24 800 10.000 10.000 10.000 <td>3. Address and Telepho</td> <td>one No. P.O. Box 3109, Mid</td> <td>lland Texas 79702</td> <td>688-4606</td> <td></td> <td></td> <td></td> <td></td>	3. Address and Telepho	one No. P.O. Box 3109, Mid	lland Texas 79702	688-4606				
At Surface Lose 1 1980 Feel From The EAST Lose Lose TANK DELAWARE 11. SEC., T., R., M., or BLK, and Survey or Area SAME Sec. 30, Township 21-S, Range 32-E 4. Distance In Make and Diraction from Namest Town or Post Office* 12. Country or Parint 13. State 15. Distance From Proposed Location to Nearest Qia, with Bin, S any) 650 15. No. of Acres in Lesse 17. No. of Acres Assigned To The Well 18. Distance From Proposed Location to Nearest Qia, with Bin, S any) 650 18. No. of Acres in Lesse 17. No. of Acres Assigned To The Well 18. Distance From Proposed Location to Nearest Qia, with Bin, S any) 650 18. Parases 40 18. Distance From Proposed Location to Nearest Qia, with Bin, S any) 650 18. Parases 22. Approx. Date Work Well 18. Distance From Proposed Location to Nearest Well, Delling, Or Artistica Bartin 1325 22. Approx. Date Work Well Start 18. Distance Strom Proposed Location to Nearest Well, Delling, Or Artistica Bartin 12. Country or Parints 22. Approx. Date Work Well Start 19. Distance Strom Proposed Location to Nearest Qia, Well Start TERK FOOT 8: TITING DEPT QuAntity OF CEMENT 11. WCG6, K65, 8 78/gi 32# 4400° 1060 SACKS - CRICULATE 111 WCG6, K65, 8 78/gi 32	4. Location of Well (Re			e requirements.*)				
Jail Letter G 1980 Feel From The EAST Line A proposed prod. zone SAME 11. SEC., T., R., M., or BLK. and Survey or Area Soc. 30, Township 21-S, Range 32-E 11. SEC., T., R., M., or BLK. and Survey or Area 10. Bitance From Proposed Location to Nearest Property or Area 12. Country or Parish 13. State 15. Distance From Proposed Location to Nearest Well, Drilling, Earny of 6607 19. Proposed Depth 20. Relary or Cable Tools 16. Distance From Proposed Location to Nearest Well, Drilling, Earny of 6607 19. Proposed Depth 20. Relary or Cable Tools 17. No. of Acres In Lesse 11. No. of Acres In Lesse 11. SEC., T., R. M., or BLK. and Survey or Area 18. Distance From Proposed Location to Nearest Well, Drilling, Earny of Cable Tools RCTARY 21. Elevations (Show whether DF.RT, GR, etc.) GR-3661 R. 111 P. Potssh 12. Counter to Not Will Start 102006 22. PROPOSED CASING AND CEMENT PROOF SETTING Depth 500 SACKS - CRCULATE 102006 111 WCSD, LIS, S. 27 (State) 179 BSD 505 SACKS - CRCULATE 12. Elevations (Show whether DF.RT, GR, etc.) 179 BSD 1580 SACKS - CRCULATE 12. Elevations (Show whether DF.RT, GR, etc.) 179 BSD 1580 SACKS - CRCULATE <td>At Surface</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>•</td> <td>ry Area</td>	At Surface					1	•	ry Area
SAME Sec. 30, Township 21-S, Range 32-E 14. Distance in Miles and Direction from Nearest Town or Post Office* 12. Country or Parteh 13. State 15. Distance From Proposed Location to Nearest Property or asset (http://www.com/state.com/state) 16. No. of Acres In Lease 17. No. of Acres Audigned To This Wall 16. Distance From Proposed Location* to Nearest Property or asset (http://www.com/state.com/state) 18. No. of Acres In Lease 17. No. of Acres Audigned To This Wall 18. Distance From Proposed Location* to Nearest Property or asset (http://www.com/state) 13.28 19. Proposed Depth 20. Robury or Cable Tools 18. Distance Strom Proposed Location* to Nearest Property or Cable Tool 08.50° 10.20098 22. Approx. Date Work Will Start* 19. Distance Strom Proposed Location* to Nearest Property or Cable Tools 08.50° 10.30098 22. Approx. Date Work Will Start* 10. State Core Nation* Control Nearest Property or Cable Tools 08.50° 10.0000 10.0000 10.0000 11. Words, Lab, 5. 87/g 32.2 400° 10.0000 500 SACKS - CIRCULATE 10.30098 11. Words, Lab, 5. 87/g 32.2 400° 10.0000 10.00000 10.00000 10.00000 10.00000 10.000000 10.000000 10.000000 10.0000000 10.0000000 <td></td> <td>50 Feet From The NOR</td> <td>TH Line and 1980</td> <td>Feet From The EAST L</td> <td>ine -</td> <td></td> <td></td> <td>and Supervior Area</td>		50 Feet From The NOR	TH Line and 1980	Feet From The EAST L	ine -			and Supervior Area
32.5 MLES WEST OF EUNICE, NM LEA NM 15. Distance From Proposed* Location to Neureel Property or see Line, FL dia to manuel drive, I million, II million,	At proposed prod. zone	:	SAME					
	14. Distance In Miles and	Direction from Nearest Town o	r Post Office*	·		12. County or P	arish	13. State
Size Linds, PL (also to nearest field), unit line, if any type of the second second part of the second second part of the second part		32.5 MILES WE	ST OF EUNICE, NM				.	
Descripted or Applied For, On This Lesse, Pt. 1328 BSG7 ROTARY 21 Elevations (Show whether DF,RT, GR, etc.) GR-3661' R. 111-P Potash 22. Approx. Date Work Will Start* 10/2006 23. PROPOSED CASING AND CEMENT PROGRAM Setter of House GR-3661' R. 111-P Potash 10/2006 33. PROPOSED CASING AND CEMENT PROGRAM Setter No DEPT* QUANTITY OF CEMENT 10/2006 14 3/4 WC50, 11 3/4 427 800' 500 SACKS - CIRCULATE 11 11 WC50, K55, 8 ³ /g 328 4400' 1060 SACKS - CIRCULATE 11 11 WC50, L80, 5 1/g 328 4400' 1060 SACKS - CIRCULATE 11 11 WC50, L80, 5 1/g 328 4400' 1060 SACKS - CIRCULATE 11 11 WC50, L80, 5 1/g 328 4400' 1050 SACKS - CIRCULATE 1100 SACKS CIRCULATE 1100 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.3 GW/S). SURFACE CASING - 500 SACKS SASK 5050 POZ LASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 150 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). 20 Y TOOL (g 5500' - 2m d STG: 600 SACKS SASKS 5050 POZ LASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100						17. No. of Acres	-	
21. Elevations (Show whether DF,RT, GR, etc.) GR-3661' R: 111-P Potash 22. Approx. Date Work Will Start 10/30/66 31.3 PROPOSED CASING AND CEMENT PROGRAM 31.4 900' 500 SACKS - CIRCULATE 14.3/4 WC50, 11.3/4 42.8 900' 500 SACKS - CIRCULATE 11 WC50, K55, 8.7/5 32.8 4400' 1050 SACKS - CIRCULATE 7.7/8 WC50, L50, 5 /2 17.7 8850' 1560 SACKS - CIRCULATE 25.MERTACE CASING - 500 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.3 GW/S). NTTERMEDIATE CASING - 500 SACKS 3565 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 150 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). PREDUCTION CASING - 1st STG: 800 SACKS 3565 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). SUT OD L@ 5500' - 2md STG: 600 SACKS 3565 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). STTEMEDIATE 10.4 FLOCELE (12.4 PPG, 2.14 CF/S, 1.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). STTEMEDIATE 10.4 FLOCELE (12.4 PPG, 2.14 CF/S, 1.9 GW/S). F/B 100 SACKS CLASS CGW/S). SACKS								
SIZE OF HOLE GRADE, SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 14 3/4 WC50, 11 3/4 428 800' 500 SACKS - CIRCULATE 111 WC50, K55, 8 5/g 328 4400' 1050 SACKS - CIRCULATE 111 WC50, L50, 5 1/g 177 8850' 1560 SACKS - CIRCULATE 27/9 WC50, L50, 5 1/g 177 8850' 1560 SACKS - CIRCULATE SURFACE CASING - 500 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.3 GW/S). NTERMEDIATE CASING - 900 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 150 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). PRODUCTION CASING - 1st STG: 860 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). ON TOOL (0.5500 - 2nd STG: 860 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). DAYS TO DRILL: 15 DAYS. DAYS TO COMPLETE: 14 DAYS. THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION. Mode Adverse worky out a belonging in to deepen, give data on present productive zone and proposed new productive zone. If proposel is to deepen, give data on generative true verticle depthe. Give blowout preventer program. If any. 24. Integram dinectionally, give pertinent data on subsurface locations and measur	21.Elevations (Show whet		R-3661'	1	111	P Potash	22. Approx	
13/4 WC50, 11 3/4 428 B00' 500 SACKS - CIRCULATE 11 WC50, 156, 8 ³ /g 328 4400' 1050 SACKS - CIRCULATE 7 7/8 WC50, 180, 5 1/g 177 8850' 1560 SACKS - CIRCULATE 7 7/8 WC50, 180, 5 1/g 177 8850' 1560 SACKS - CIRCULATE 2EMENTING PROGRAM: SURFACE CASING - 500 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.3 GW/S). NTERMEDIATE CASING - 500 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 150 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). OPRODUCTION CASING - 1st STG: 600 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). OPRODUCTION CASING - 1st STG: 600 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). DAYS TO DRILL: 15 DAYS. DAYS TO COMPLETE: 14 DAYS. THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION. DAYS TO DRILL: 15 DAYS. DAYS TO COMPLETE: 14 DAYS. THERE ARE NO OTHER OPERATORS IN THIS QUARTER SECTION. DAYS OF DRILL: 15 DAYS. DAYS TO COMPLETE: 14 DAYS. THERE ARE NO OTHER OPERATORS IN THIS QUARTER SECTION. DAYS TO DRILL: 15 DAYS. DAYS TO COMPLETE: 14 DAYS. THE MOVEL ARE ARE NO OTHER OPERATORS IN THIS QUART	23.		PROPOSED CAS	ING AND CEMENT PR	OGF	RAM	•••••	
11 WGE0, KE5, 8 ⁻⁷ /8 328 4400' 1050 SACKS - CIRCULATE 7 7/8 WGE0, LE0, 5 ¹ / ₂ 178 B850' 1560 SACKS - CIRCULATE 2EMENTING PROGRAM: SURFACE CASING - 500 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.3 GW/S). Interview of the second	SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH			UANTITY (DF CEMENT
7 7/6 WC50, L80, 6 1/2 17/7 B850' 1560 SACKS - CIRCULATE CEMENTING PROGRAM: SURFACE CASING - 500 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.3 GW/S). Intervention of the subscript of th	14 3/4	WC50, 11 3/4	42#	800'		500 SACKS -	CIRCULAT	E
CEMENTING PROGRAM: SURFACE CASING - 500 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.3 GW/S). INTERMEDIATE CASING - 900 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 150 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). PRODUCTION CASING - 1st STG: 860 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S) DOL @ 5500 - 2nd STG: 600 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S) DAYS TO DRILL: 15 DAYS. DAYS TO COMPLETE: 14 DAYS. THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION. Above Space Describe Proposed Program: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give partiment data on subsurface locations and measured true verticle depths. Give blowout preventer program, if any. 24. Invelve settly that the longing is true and order SIGNATURE C. Wade Howard TITLE Eng. Assistant DATE 8/30/96 TYPE OR PRINT NAME C. Wade Howard TITLE APPROVAL DATE Application approval does not versant or carbly that the applicant holds legal or equilable title to the settle less which would entitle the applicant to conduct operations thereon. APPROVED BY CHEMAN TO CONTRUCT TITLE ACTION DATE DATE 10/18/97 C	11	WC50, K55, 8 3/8	32#	4400'		1050 SACKS	- CIRCULAT	ГЕ —
SURFACE CASING - 500 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.3 GW/S). NTERMEDIATE CASING - 900 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 150 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). PRODUCTION CASING - 1st STG: 600 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S) PRODUCTION CASING - 1st STG: 600 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S) DV TOOL @ 5500 - 2nd STG: 600 SACKS 36/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S) DAYS TO DRILL: 15 DAYS. DAYS TO COMPLETE: 14 DAYS. THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION. I Above Space Describe Proposed Program: If proposal is to deepen, 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 true verticle depths. Give blowout preventer program. If any. 24. Invelve worthy but the longeing is the of exercit SIGNATURE	7 7/8	WC50, L80, 5 1/2	17#	8850'		1560 SACKS	- CIRCULA	TE
THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION. In Above Space Describe Proposed Program: If proposal is to deepen, 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 true verticle depths. Give blowout preventer program, if any. 24. Investor certify that the foregoing is true and correct TITLE Eng. Assistant DATE 8/30/96 24. Investor certify that the foregoing is true and correct TITLE Eng. Assistant DATE 8/30/96 24. Investor certify that the foregoing is true and correct TITLE Eng. Assistant DATE 8/30/96 7YPE OR PRINT NAME C. Wade Howard APPROVAL DATE	SURFACE CASING - 5 INTERMEDIATE CASI SACKS CLASS H (15.1 PRODUCTION CASIN DV TOOL @ 5500' - 21	500 SACKS CLASS C W/2 NG - 900 SACKS 35/65 PC 6 PPG, 1.18 CF/S, 5.2 GW/ IG -1st STG: 860 SACKS 50 nd STG: 600 SACKS 35/65	DZ CLASS H W/ 6% GE /S). D/50 POZ H w/ 2% GEL POZ CLASS H W/ 6%	EL, 5% SALT, 1/4# FLOCEI	PPG.	1.35 CF/S, 6.3 (GW/S).	
to drill or deepen directionally, give pertinent data on subsurface locations and measured true verticle depths. Give blowout preventer program, if any. 24. I hereby certify that the loregoing is take and correct TITLE Eng. Assistant DATE 8/30/96 24. I hereby certify that the loregoing is take and correct TITLE Eng. Assistant DATE 8/30/96 TYPE OR PRINT NAME C. Wade Noward APPROVAL DATE				SECTION.	ند رئیل 100 میں میں		s and	
SIGNATORE C. Wade Howard TYPE OR PRINT NAME C. Wade Howard (This space for Federal or State office use) APPROVAL DATE	to drill or deepen direct	tionally, give pertinent data o going is two and correct	n subsurface locations a	and measured true verticle de	phe a	nd proposed new Give blowout pr	eventer pro	gram, if any.
(This space for Federal or State office use) PERMIT NO				.				
PERMIT NO. APPROVAL DATE			· · · · · · · · · · · · · · · · · · ·					
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. APPROVED BY <u>Gibert</u> <u>T</u> , <u>Marco</u> TITLE <u>Acting</u> <u>Start</u> <u>Director</u> DATE <u>10/18/92</u> CONDITIONS OF APPROVAL, IF ANY: 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			·					
CONDITIONS OF APPROVAL, IF ANY: 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		ot warrant or certify that the applica			which	would entitle the app	licant to condu	uct operations thereon.
The 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			VCARTO_TITLE	Acting State	Ð,	rector	DATE	10/18/92
	Title 18 U.S.C. Section 1001	I, makes it a crime for any person k	nowingly and willfully to make	to any department or agency of the	Unite	d States any false, fic	titious or fraud	luient statements or

DeSoto Michae 10-94 ver 2	

DISTRICT 1 P. O. Box 1980. Hobbs, NM 88240

DISTRICT II P. O. Drower DD, Artesia, NM 88210

DISTRICT III 1000 Rig Brazos Rd., Aztec, NM 87410

DISTRICT IV P. 0. Box 2088, Sonto Fe, NM 87504-2088 State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe, NM 87504-2083 Form C-102 Revised February 10, 1994

AMENDED REPORT

Instructions on back

Submit to Appropriate District Office

State Lease-4 copies Fee Lease-3 copies

WELL LOCATION AND ACREAGE DEDICATION PLAT



-

DRILLING PROGRAM

BILBREY '30' FEDERAL WELL NO. 4

SURFACE DESCRIPTION:

The land surface in this area is relatively level with moderate sand dunes. Regionally, the land slopes to the North. Vegetation consists mainly of scrub oak, mesquite, and range grasses.

FORMATION TOPS: Estimated KB Elevation: 3675'

Formation	<u>Depth</u>	Lithology	<u>Fluid Content</u>
Rustler	798 '	Anhydrite, Salt	
Salado	1120'	Salt	
Lamar	4530'	Limestone	Marker
Bell Canyon	4670 '	Sandstone	
Brushy Canyon	6960'	Sandstone, Shale	Oil/Gas
Brushy Canyon - Pay	7230'	Sandstone, Shale	Oil/Gas
Bone Spring	8590'	Limestone	Oil/Gas

The base of the salt section is found around 4350'. No abnormal pressures or temperatures are anticipated to be encountered in this well. H2S is possible in this well. H2S RADIUS OF EXPOSURE: 100ppm = 23 feet, 500ppm = 11 feet, based on 800ppm and 115 MCF. (See attached H2S Drilling Operations Plan. H2S equipment to be operational prior to drilling out the Surface Casing Shoe.)

PRESSURE CONTROL EQUIPMENT:

A 3000 psi Dual Ram type preventer with rotating head will be used. (See Exhibit C). We do not plan to have an annular preventer. We will be able to achieve full closure of the well with the double ram preventer. It will be installed after surface casing is set. BOP will be tested each time it is installed on a casing string and at least every 29 days, and operated at least once each 24-hour period during drilling.

A PVT system will not be installed. We will be drilling thru the reserve pit and will circulate the steel pits one hour each tour to check for gains and losses and will be noted on the driller's log, which is Texaco's policy.

We do not plan to run an automatic remote-controlled choke. We will have installed and tested two manual, H2S trimmed, chokes.

CASING AND CEMENT PROGRAM:

The cementing program is detailed on Form 3160-3. All casing will be new.

Surface Casing: 14 3/4" hole, 11 3/4", 42#, WC-50, STC, set @ 800'

Intermediate Casing: 11" hole, 4000' of 8 5/8", 32#, WC-50, LTC and 400' of 8 5/8", 32#, J-55, LTC set @ 4400'.

Production Casing: 7 7/8" hole, 6400' of 5 1/2", 17#, WC-50, LTC and 2450' of 5 1/2", 17#, L-80, LTC set @ 8850'.

Centralizer Program:

Surface Casing - Centralize the bottom 3 joints and every 4th to surface.

Intermediate Casing - Centralize the bottom 3 joints.

Production Casing - Centralize the bottom 1650', every other cplg.

MUD PROGRAM:

<u>Depth</u>	Туре	<u>Weight</u>	<u>Viscosity</u>
0'-800'	Fresh Water	8.4	28
800'-4400'	Brine Water	10.0	29
4400'-8850'	Fresh Water Gel	8.4-9.0	45

Bottom Hole Pressure at T.D. estimated to be 7.9 PPG EMW. (3635 psi) Duration of Operation: 15 Days to Drill + 14 Days to Complete= 29 Days

LOGGING, TESTING:

GR-CAL-CNL-LDT and GR-SP-AIT surveys will be run.

A two-man Mud Logging Unit will be used from 4400' to 8850'.

No drill stem tests will be conducted.

No cores will be taken.

DRILLING CONTROL CONDITION I-B 3000 WP

FOR AIR DRILLING OR WHERE NITROGEN OR AIR BLOWS ARE EXPECTED



H₂S TRIM REQUIRED YES X NO



DRILLING CONTROL

MATERIAL LIST - CONDITION II - B

Texaco Wellhead

A

.

2

- 3000% W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
- C 30000 W.P. Dual ram type preventer, hydraulic operated with 1" steel, 30000 W.P. control lines (where substructure height is adequate, 2 - 30000 W.P. single ram type preventers may be utilized).
- D Rotating Head with fill up outlet and extended Blooie Line.
- 1,3,4, 2" minimum 3000\$ W.P. flanged full opening steel gate 7,8, valve, or Halliburton Lo Torc Plug valve.
 - 2" minimum 3000# W.P. back pressure valve.
- 5,6,9 3" minimum 3000\$ W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 12 3" minimum schedule 80, Grade "B", seamless line pipe.
- 13 2" minimum x 3" minimum 3000# W.P. flanged cross.
- 10,11 2" minimum 3000# W.P. adjustable choke bodies.

14 Cameron Mud Gauge or equivalent (lccation optional in choke line).

15 2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.

				TEXACO, INC.	
SCALE	DATE	EST. NO.	DRG. NO.	 	····
DRAWN BY				EXHIBIT C	•
CHECKED BY					
APPROVED BY					

SURFACE USE AND OPERATIONS PLAN

FOR

TEXACO EXPLORATION AND PRODUCTION, INC.

BILBREY "30" FEDERAL NO. 4

1980' FNL & 1980' FEL, SECTION 30,

TWP. 21 SOUTH, RANGE 32 EAST, N.M.P.M.,

LEA COUNTY, NEW MEXICO

LOCATED: 32.5 miles West of Eunice, New Mexico

FEDERAL LEASE NUMBER: NM 29233

LEASE ISSUED: Lease is in a producing status

ACRES IN LEASE: 1620.75

RECORD LESSEE: TEXACO EXPLORATION AND PRODUCTION, Inc.

SURFACE OWNERSHIP: USA

<u>GRAZING PERMITTEE:</u> Mr. J. C. Mills Drawer 190 Abernathy, Texas 79311

POOL: Wildcat

<u>POOL RULES:</u> Field Rules are for no wells to be located closer than 330' to any quarter-quarter section, to be 330' from the lease line, and 330' from the nearest well.

EXHIBITS: A. Access Road and Facilities Map

- B. Drilling Rig Layout Diagram
- C. Well Location and Acreage Dedication Plat

Surface Use and Operation Plan, Bilbrey '30" Fed. 4, 8/29/96, Pg. 2

1. EXISTING ACCESS ROADS

A. Exhibit "A" is an enlarged portion of a 7.5 minute U.S.G.S. topographic map showing the proposed well site and the existing roads in the area. Point "A" is the junction of the existing resource road with Lea County Road No. C-29, being 9.2 miles Southeasterly and Southerly from its intersection with U.S. Highway 62 & 180. Said intersection is approximately 32 miles Northeasterly of Carlsbad and 40 miles Southwesterly of Hobbs, New Mexico along the major established Public Road System. Point "A" is also approximately 12.7 miles Northerly on Eddy County Road No. 798 and Lea County Road C-29 from Eddy County Road 798 intersection with State Highway 128, which is approximately 34 miles Westerly of Jal, New Mexico. From Point "A" go Easterly 0.65 miles, then 1.0 miles Northerly, to Point "B" entering the subject lease, and then 0.40 miles Northerly to Point "C", the beginning of the proposed resourse road as shown on Exhibits "A" and "B".

2. PLANNED RESOURCE ROAD

A. Length and Width: From Point "C" as shown on Exhibit "A", a new 14 foot wide Resource Road will be constructed approximately 1090 feet North (Shown in Purple on Exhibit "A") with access at the Southeast corner of the proposed well pad, as shown on Exhibits "A" and "B".

B. <u>Surfacing Material:</u> Caliche material will be used to surface the proposed road. It will be watered, compacted, and graded.

C. <u>Maximum Grade:</u> An approximate grade of two percent will be encountered descending from Point "C" to the proposed well pad.

D. <u>Turnouts</u>: Turnouts will not be required.

E. <u>Drainage Design</u>: The new road will be crowned at the center to direct drainage to ditches on both sides of the roadway with turnout ditches to be constructed as required.

F. <u>Culverts:</u> None required.

G. <u>Cuts and Fills</u>: A moderate amount of leveling will be required as the road crosses several intermediate size sand dunes to the proposed well pad.

H. Gates and Cattle Guards: None will be required.

Surface Use and Operation Plan, Bilbrey "30" Fed. 4, 8/29/96, Pg. 3

3. LOCATION OF EXISTING WELLS

A. Existing wells on the lease and in the immediate area are shown on Exhibit "A".

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

A. The oil, gas, and/or water that this well produces will be transported by a 2 7/8" steel surface flowline (shown in Dark Green on Exhibit "A") to the Bilbrey "30" Federal Tank Battery to be constructed on the proposed well pad of the Bilbrey "30" Federal No. 5 as shown on Exhibit "B".

B. An electric power line will be built to service this well as shown in red on Exhibit "A". It will be a 12,470 phase to phase, no neutral, rapture protected line. Note that other existing and proposed electric lines are shown on Exhibit "A" for reference.

5. LOCATION AND TYPE OF WATER SUPPLY

A. It is not contemplated that a water well would be drilled. Water necessary for drilling operations will be purchased and trucked to the well site or will be transported to the well site by a temporary pipeline laid on the ground along side existing and proposed roads.

6. SOURCE OF CONSTRUCTION MATERIALS

A. Caliche needed for the road and well pad will be taken from the proposed borrow pit located within the 400' x 400' archaeologically cleared tract at the proposed well site (See Exhibit "B" for location). If sufficient quality or quantity of caliche is not available, it will be transported to the proposed road and well site from the existing pit in the SW/4 of the NE/4 of Section 32, T21S, R32E, by Lea County Road C-29 and the existing resource roads.

7. METHOD OF HANDLING WASTE DISPOSAL

A. Drill cuttings 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 tests will be disposed of at commercial or company facilities.

D. Oil produced during tests will be stored in test tanks until sold.

Surface Use and Operation Plan, Bilbrey "30" Fed. 4, 8/29/96, Pg. 4

E. Trash, waste paper, garbage and junk will be placed in a trash bin located on the drill site pad. It will be transported to an approved landfill for disposal within 30 days after completion of drilling and/or completion of operations. All waste material will be contained to prevent scattering by the wind.

8. ANCILLARY FACILITIES

A. None required.

9. WELL SITE LAYOUT

A. Exhibit "B" shows the relative location and dimensions of the well pad, mud pits, and borrow pit, and the location of the major rig components.

B. Cut and Fill requirements will be minor, but clearing and leveling of the well site will be necessary.

10. PLANS FOR RECLAMATION OF THE SURFACE

A. After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location will be cleaned of all trash and junk to leave the well site in an as aesthetically pleasing condition as possible.

B. Any unguarded pits containing fluids will be fenced until the pits are dry.

C. After abandonment, all equipment, trash and junk will be removed and the well site will be cleaned. Any special reclamation and/or special revegetation requirements of the Surface Management Agency will be complied with and will be accomplished as rapidly as possible.

11. OTHER INFORMATION

A. <u>Topography:</u> The land surface in the area of the well is relatively level with moderate sand dunes. Regionally, the land slopes to the North with average slopes of one to two percent.

B. <u>Soil:</u> Top soil at the well site is a deep sandy loam.

C. <u>Flora and Fauna</u>: The vegetation cover is moderate. It includes range grasses, weeds, scrub oak bushes, and mesquite bushes. Wildlife in the area is that typical of a semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, hawks, dove, quail and other small birds. Surface Use and Operation Plan, Bilbrey "30" Fed. 4, 8/29/96, Pg. 5

D. <u>Ponds and Streams:</u> There are no rivers, lakes, ponds, or streams in the area.

E. <u>Residences and Other Structures</u>: There are no occupied dwellings or other structures within 3/4 mile of the well site.

F. <u>Archaeological, Historical, or other Cultural Sites:</u> None were observed in the area.

G. Land Use: Grazing, oil and gas production, and wildlife habitat.

H. Surface Ownership: Federal

12. OPERATOR'S REPRESENTATIVE

C. Wade Howard Engineer's Assistant Texaco Exploration and Production, Inc. P. O. Box 3109 Midland, Texas 79701 Office Phone: (915) 688-4606

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently 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 Texaco Exploration and Production, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U. S. C. 1001 for the filing of a false statement.

8/30/96

C. Wade Howard

Division Drilling Operations Manager Midland, Texas

Date

Enclosures jsp





DISTRICT 1 P. O. Box 1950, Hobbs, NM 88240

DISTRICT || P. O. Drawer DD, Arteeia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT N/ P. 0. Box 2088, Santa Fe, NM 87504-2088

Staked Location - Draduates Wall

.

347.11

Ŧ

...

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe, NM 87504-2038 Form C-102 Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease-4 copies Fee Lease-3 copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT





Γ

-

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

BILBREY `30' FEDERAL WELL NO. 4

RADIUS OF EXPOSURE

100 PPM: 23 feet

500 PPM: 11 feet Based on 800 PPM H_2S and 115 MCFD.

TRAINING

Every person involved in the wellsite operation will be informed of the characteristics of hydrogen sulfide, its danger, safe procedures to be used when it is encountered, use of detection equipment, use of protective breathing equipment, and first aid procedures for regular rig personnel.

On site training will be provided by Texaco prior to reaching Order 6 compliance depth. The Texaco Drilling Supervisor is responsible for insuring all persons working on location have been provided training.

EXHIBIT A

Topographic map of location and surrounding area.

EXHIBIT B

The wellsite layout contains the following information:

- 1. Drill rig orientation
- 2. Prevailing wind direction
- 3. Location of all briefing areas
- 4. Location of access road
- 5. Location of flare line
- 6. Location of windsocks

EXHIBIT C

Well Control Equipment

PROTECTIVE EQUIPMENT

4 - 30 minute SCBA's: 2 located at each Briefing Station. An additional SCBA will be located at the Tool Pusher's trailer, if used.

5 - 5 minute escape packs will be located in the Dog House.

Means of communication while using protective equipment will be hand signals.

H₂S SENSORS

 H_2S sensors will be located at (1) Shale Shaker (2) Rotating Head and (3) Rig Floor.

A light will be located on the rig floor It will be set to go off at 10 PPM. It will be visible from anywhere on the location.

A siren will be located on the rig floor. It will be set to go off at 15 PPM.

Texaco Drilling Supervisor will maintain a portable H₂S monitor.

MUD PROGRAM

A Fresh Water/Brine system will be used. Ph will be maintained at 10 or higher if H_2S is encountered. Sufficient quantities of H_2S scavenger will be on location for use as required.

Drilling will be through an on site gas separator to separate gas from drilling fluid with gas vented down a flare line equipped with an igniter.

METALLURGY

All wellheads, trees, BOP's, rotating heads, choke manifolds and piping will be constructed/trimmed with materials suitable for H_2S service.

All casing and tubing will be no greater than 80000 psi yield strength and no greater than a Rockwell C-22 hardness.

OTHER REQUIREMENTS OF ORDER 6

The flare line (item 4 of exhibit C) will be equipped with a propane ignition.

The flare gun and flares will be located at the primary briefing station.

Communications for the location will be by Rig Telephone.

Wind direction indicators will be on the rig floor and at one briefing station with at least one visible from all points on the location.

Caution/danger signs and flags will be maintained at all entrances into the location.

An automatic remote-controlled choke will not be used. We will have installed and tested two manual, H_2S trimmed, chokes.

WELL TESTING

No DST's are planned.





DRILLING CONTROL CONDITION II-B 3000 WP

FOR AIR DRILLING OR WHERE NITROGEN OR AIR BLOWS ARE EXPECTED





H2S TRIM REQUIRED

NO

YES X

DRILLING CONTROL

MATERIAL LIST - CONDITION II - B

Texaco Wellhead

A

B

C

D

2

12

15

1,

- 30000 W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
- 3000% W.P. Dual ram type preventer hydraulic operated with 1° steel, 3000% W.P. control lines (where substructure height is adequate, 2 - 3000% W.P. single ram type preventers may be utilized).
- Rotating Head with fill up outlet and extended Blooie Line.
- 1,3,4, 2" minimum 30005 W.P. flanged full opening steel gate 7,8, valve, or Halliburton Lo Torc Plug valve.
 - 2" minimum 3000# W.P. back pressure valve
- 5,6,9 3" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
 - 3" minimum schedule 80, Grade "B", seamless line pipe.
 - 2" minimum x 3" minimum 3000# W.P. flanged cross.
- 10,11 2" minimum 3000# W.P. adjustable choke bodies.

14 Cameron Hud Gauge or equivalent (location optional in choke line).

2" minimum J000f W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.

					TEXACO, INC.	
SCALE	DATE	EST NO.	DRO. NO.			
DRAWN BY		1		1	EXHIBIT C	
CHECKED BY		1 1			EXHIBIT C	
*PPROVED BY		1				



NOV 1996 Received Hobbs OCD