DISTRIBUTION       NEW MEXICO OIL CONSERVATION COMMISSION       Form C-101 Revised 14-65         SANTA FE       Image: Construction Commission       Form C-101 Revised 14-65         FILE       Image: Construction Commission       Form C-101 Revised 14-65         U.S.G.S.       Image: Construction Commission       Form C-101 Revised 14-65         LAND OFFICE       Image: Construction Commission       Form C-101 Revised 14-65         APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK       State Oil & Gas Lease No. (647-349) (647-351)         APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK       7. Unit Agreement Name Empire Abo Pressure Maintenance Project         b. Type of Weil       OTHER       Single X         OUL X       Multiple       Empire Abo Unit "G"         2. Name of Operator       9. Well No.       301         Atlantic Richfield Company       1315       Feet FROM THE South       Inter         1315       Located       1315       Feet FROM THE South       Line	NO. OF COPIES RECEIVED				80-015	5-21891		
FILE       //       //         U.S.G.S.       )       )         LAND OFFICE       //       )         OPERATOR       //       )         APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK       (647-349) (647-351)         APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK       )         Is. Type of Wolk       (1.1. C.C.)         B. Type of Wolk       (1.1. C.C.)         B. Type of Well       DEEPEN         B. Type of Well       DEEPEN         PLUG BACK       (2.1. C.C.)         With C.C.       (3.1. C.C.)         2. Name of Operator       PLUG BACK         Atlantic Richfield Company       (301         3. Address of Operator       (1.1. Courter         P. O Box 1710, Hobbs, New Mexico 88240       (1.1. Courter         4. Location of Well       (1.1. Courter         UNIT LETTER       (Coarter       1315         And 1315       rect recontric       (3.1. Courter)         1315       rect recontric       (2.1. Courter)         21. Elevations (Show whether DF, RT, etc.)       (21. A. Kind & Status Pluq, Bond       (21. Prime Courter         21. Elevations (Show whether DF, RT, etc.)       (21. A. Kind & Status Pluq, Bond       (21. Prime Courter	DISTRIBUTION	NEW MEXICO OIL CONSI	Form C-101					
u.s.g.s.       2         LAND OFFICE       /         OPERATOR	SANTA FE							
u.s.g.s.       2         LAND OFFICE       /         OPERATOR	FILE // V		DEC 23 19/1	ן מ				
LAND OFFICE       /       D. C. C.         OPERATOR       /       ARTEBIA, DFFICE       (647-349) (647-351)         APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK       7. Unit Agreement Name       Empire Abo Pressure         APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK       7. Unit Agreement Name       Empire Abo Pressure         b. Type of Weil       PLUG BACK X       8. Farm or Lease Name       8. Farm or Lease Name         OUL X       ext. X       orner       Sincite X       Multifier Deepen       9. Weil No.         2. Name of Operator       9. Weil No.       9. Weil No.       9. Weil No.       9. Weil No.         Atlantic Richfield Company       301       10. Field and Pool, or Wildert       Empire Abo         4. Location of Weil       UNIT LETTER K       Located 1315       FEET FROM THE       South       11. County         AND       1315       FEET FROM THE       Vest Line or sec.       33       TWP. 175       Ref. 28E       MUP         21. Elevations (Show whether DF, RT, etc.)       21. Kind & Status Plug. Bond       218. Drilling Contractor       20. Foldary or C.T.         3668.5' GR       GCA #8       Not selected       12./27/76	U.S.G.S.			l l				
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK         1. Type of Work         ILL         DRILL         DEEPEN         PLUG BACK         NULL Colspan="2">OF Well         OF Well         OF Well Colspan="2">OF Well Colspan="2" <td <="" colspan="2" td=""><td>LAND OFFICE /</td><td></td><td></td><td></td><td></td><td></td></td>	<td>LAND OFFICE /</td> <td></td> <td></td> <td></td> <td></td> <td></td>		LAND OFFICE /					
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK         1. Type of Work         ILL         DRILL         DEEPEN         PLUG BACK         NULL Colspan="2">OF Well         OF Well         OF Well Colspan="2">OF Well Colspan="2" <td <="" colspan="2" td=""><td>OPERATOR /</td><td></td><td>U. U. U.</td><td>5E  </td><td>(647-349)</td><td>(647-351)</td></td>	<td>OPERATOR /</td> <td></td> <td>U. U. U.</td> <td>5E  </td> <td>(647-349)</td> <td>(647-351)</td>		OPERATOR /		U. U. U.	5E	(647-349)	(647-351)
In Type of Work       DRILL       DEEPEN       PLUG BACK       The mpire Abo       Pressure         Internance       Dressure       SINGLE       Multiple       Empire Abo       Bintenance       Project         Internance       Single       Single       Multiple       Single       Bintenance       Project         Internance       Operator       Single       Single       Single       Bintenance       Project         Internance       Operator       Single       Single       Single       Bintenance       Bi		•	ARIESIN					
In Type of Work       DRILL       DEEPEN       PLUG BACK       The mpire Abo       Pressure         Internance       Dressure       SINGLE       Multiple       Empire Abo       Bintenance       Project         Internance       Single       Single       Multiple       Single       Bintenance       Project         Internance       Operator       Single       Single       Single       Bintenance       Project         Internance       Operator       Single       Single       Single       Bintenance       Bi	APPLICATION FO	R PERMIT TO DRILL, DEEPEN,	OR PLUG BACK					
DRILL       DEEPEN       PLUG BACK       Maintenance_Project         ottom       Single       Multiple       Empire Abo Unit "G"         ottom       Single       Multiple       Empire Abo Unit "G"         2. Name of Operator       9. Well No.       301         Atlantic Richfield Company       9. Well No.       301         3. Address of Operator       10. Field and Pool, or Wildedt       Empire Abo         P. O Box 1710, Hobbs, New Mexico 88240       Empire Abo       Empire Abo         4. Location of Well       UNIT LETTER       K       Located       1315         And       1315       FEET FROM THE       South       Line         And       1315       FEET FROM THE       Vest       12. County         21. Elevations (Show whether DF, RT, etc.)       21A. Kind & Status Plug. Bond       21B. Drilling Contractor       22. Approx. Date Work will start         3668.5' GR       GCA #8       Not selected       12/27/76       12/27/76	1a. Type of Work							
b. Type of Well       as well other       other       as well other       Empire Abo Unit "G"         01       well is reached operator       9. Well No.       301         2. Name of Operator       9. Well No.       301         3. Address of Operator       10. Field and Pool, or Wildcat         P. O Box 1710, Hobbs, New Mexico 88240       Empire Abo         4. Location of Well       unit Letter         unit Letter       K Locateo 1315         FEET FROM THE       West Line or sec. 33         tup:       175         RGE. 28E       NMPM         12. County       Eddy         1315       FEET FROM THE         Vest       19. Proposed Depth         19. Proposed Depth       19. Formation         20. Rotary or C.T.         6490       Abo Reef         Workover Rig         21. Elevations (Show whether DF, RT, etc.)       21.4. Kind & Status Plug. Bond       21B. Drilling Contractor         3668.5' GR       GCA #8       Not selected       12/27/76	<b>5</b> 54 1		PLUC	BACK	-			
2. Name of Operator       9, Well No.         Atlantic Richfield Company       301         3. Address of Operator       10. Field and Pool, or Wildcat         P. O Box 1710, Hobbs, New Mexico 88240       Empire Abo         4. Location of Well       UNIT LETTER K         AND       1315         FEET FROM THE       West         LINE OF SEC.       33         TWP.       17S         RGE.       28E         MAD       1315         FEET FROM THE       West         LINE OF SEC.       33         TWP.       17S         RGE.       28E         MAD       131.5         FEET FROM THE       West         LINE OF SEC.       33         TWP.       17S         RGE.       28E         MAD       12. County         Eddy       13. Formation         20. Rotary or C.T.         6490       Abo Reef         Workover Rig         21. Elevations(Show whether DF, RT, etc.)       21A. Kind & Status Pluq. Bond         21B. Drilling Contractor       22. Approx. Date Work will start         3668.5' GR       GCA #8	b. Type of Well	DEEPEN [						
Atlantic Richfield Company       301         3. Address of Operator       10. Field and Pool, or Wildcat         P. O Box 1710, Hobbs, New Mexico 88240       Empire Abo         4. Location of Well       UNIT LETTER         NIT LETTER       K         LOCATED       1315         FEET FROM THE       Vest         VINT LETTER       Vest         INF OF SEC.       33         TWP.       17S         RGE.       28E         NOT       12. County         Eddy       12. County         Eddy       13. Freet FROM THE         Vest       19. Proposed Depth         19. Proposed Depth       19. Formation         20. Rotary or C.T.       6490         Abo Reef       Workover Rig         21. Elevations(Show whether DF, RT, etc.)       21A. Kind & Status Pluq. Bond       21B. Drilling Contractor         3668.5' GR       GCA #8       Not selected       12/27/76	OIL X GAS WELL	OTHER	ZONE X	ULTIPLE		bo Unit "G"		
3. Address of Operator       10. Field and Pool, or Wildcat         P. O Box 1710, Hobbs, New Mexico 88240       Empire Abo         4. Location of Well       UNIT LETTER K       LOCATED 1315       FEET FROM THE South       LINE         AND       1315       FEET FROM THE       West       LINE OF SEC.       33       TWP.       17S       RGE. 28E       NMPM         12. County       Eddy       12. County       Eddy       12. County       12. County         21. Elevations (Show whether DF, RT, etc.)       21A. Kind & Status Plug. Bond       21B. Drilling Contractor       22. Approx. Date Work will start         3668.5' GR       GCA #8       Not selected       12/27/76	2. Name of Operator				9. Well No.			
3. Address of Operator       10. Field and Pool, or Wildcat         P. O Box 1710, Hobbs, New Mexico 88240       Empire Abo         4. Location of Well       UNIT LETTER K       Located 1315         AND       1315       FEET FROM THE       South         LINE OF SEC.       33       TWP.       17S       RGE. 28E         NO       12. County       12. County         Eddy       10. Proposed Depth       19A. Formation       20. Rotary or C.T.         64 90       Abo Reef       Workover Rig         21. Elevations (Show whether DF, RT, etc.)       21A. Kind & Status Plug. Bond       21B. Drilling Contractor       22. Approx. Date Work will start         3668.5' GR       GCA #8       Not selected       12/27/76	Atlantic Richfield Company							
A. Location of Weil       UNIT LETTER       K       LOCATED       1315       FEET FROM THE       South       LINE         AND       1315       FEET FROM THE       West       LINE OF SEC.       33       TWP.       17S       RGE.       28E       NMPH       12. County         Intervention       Intervention <td colspan="4">3. Address of Operator</td> <td colspan="2">10. Field and Pool, or Wildcat</td>	3. Address of Operator				10. Field and Pool, or Wildcat			
UNIT LETTER       I       LOCATED       1015       FEET FROM THE       West       LINE OF SEC.       33       TWP.       17S       RGE.       28E       NMPM       12. County         AND       1315       FEET FROM THE       West       LINE OF SEC.       33       TWP.       17S       RGE.       28E       NMPM       12. County         Eddy       10. Proposed Depth       19A. Formation       20. Rotary or C.T.       6490       Abo Reef       Workover Rig         21. Elevations (Show whether DF, RT, etc.)       21A. Kind & Status Plug. Bond       21B. Drilling Contractor       22. Approx. Date Work will start         3668.5'       GR       GCA #8       Not selected       12/27/76	P. O Box 1710, Hobbs, New Mexico 88240				Empire Abo			
AND 1315 FEET FROM THE West LINE OF SEC. 33 TWP. 17S RGE. 28E NMPM 12. County Eddy 12. County Eddy 10. Proposed Depth 19A. Formation Abo Reef Workover Rig 21. Elevations (Show whether DF, RT, etc.) 3668.5' GR GCA #8 Not selected 12/27/76	4. Location of Well UNIT LETTER K LOCATED 1315 FEET FROM THE South LINE							
12. County         Eddy         Eddy         10. Proposed Depth         19. Proposed Depth         20. Rotary or C.T.         6490         Abo Reef         Workover Rig         21. Elevations (Show whether DF, RT, etc.)         21. A. Kind & Status Plug. Bond         21. Elevations (Show whether DF, RT, etc.)         21. A. Kind & Status Plug. Bond         21. B. Drilling Contractor         22. Approx. Date Work will start         3668.5' GR         GCA #8         Not selected         12/27/76								
Eddy         19. Proposed Depth       19. Formation         20. Rotary or C.T.         64 90       Abo Reef         Workover Rig         21. Elevations (Show whether DF, RT, etc.)         21. Elevations (Show whether DF, RT,	AND 1315 FEET FROM THE	West LINE OF SEC. 33	TWP. 175 RGE. 2	8E NMPM	7//////			
19. Proposed Depth       19. Formation       20. Rotary or C.T.         64 90       Abo Reef       Workover Rig         21. Elevations (Show whether DF, RT, etc.)       21A. Kind & Status Pluq. Bond       21B. Drilling Contractor       22. Approx. Date Work will start         3668.5' GR       GCA #8       Not selected       12/27/76					12. County			
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3668.5' GR         GCA #8         Not selected         12/27/76			6490	Abo Ree	ef	Workover Rig		
	21. Elevations (Show whether DF, RT, el	tc.) 21A. Kind & Status Plug. Bond	21B. Drilling Contractor	r	22. Approx.	Date Work will start		
22	3668.5' GR	GCA #8	Not selected		12/27/76			
23. PROFESSED CASING AND CEMENT PROGRAM								

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
No change in casing	1070	32,51 +46,50	700	398	Cerculated
		26.40 29.40 2470	6705	1250	11
					1

This well was drilled to TD 10,498'. The Empire Penn Gas test was unsuccessful and the well bore was plugged back to 6490' in order to utilize well in the Empire Abo Pressure Maintenance Project. Propose to complete as a producing oilwell in the Empire Abo Unit in the following manner:

- 1. Rig up, install BOP.
- 2. Run GR-Corr log PBD to top of reef.
- 3. Perforate Abo w/2 JSPF 6250' to 6270'.
- 4. RIH w/2-3/8" tbg & Lok-set pkr above perforated interval.
- 5. Acidize perfs 6250-70' w/2000 gals 15% HCL-LSTNE acid w/iron sequestrant.

6. Swab test & complete as an oilwell.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUC-TIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed The Signed	TuleDistDrlgSupt			
(This space for State Use) APPROVED BY 2. a Luescett		DEC 2 3 1976		
CONDITIONS OF APPROVAL, IF ANY: Aubmit C-102 Generge-	Redication flat prion to	producing		

## RECEIVED

DEC 23 1976

D. C. C.



## ATLANTIC RICHFIELD COMPANY Blow Out Preventer Program

Lease 'Name Empire Abo Unit "G"

Well No. 301

Location	.1315 '	FSL &	131;	5' FWL	I	
	Sec 3	3-17S-	28E.	Eddy	County	-

BOP to be tested before installed on well and will be maintained in good working condition during drilling. All wellhead fittings to be of sufficient pressure to operate in a safe manner.