STATE OF NEW MEXICO NERGY AND MINERALS DEPARTMENT

NO. 07 COPIES SECEIVES	T	
DISTRIBUTION		
SANTA FE	$T\bar{t}$	
FILE	1)	/
U.S.G.S.		
LAND OFFICE		
OPERATOR	17	T

50. 67 (67)(6 \$1(1))(6	- OIL CONSERVA	RECEIVED	Farm 5 300
DISTRIBUTION	P. O. BOX 2088		Form C-103 Revised 10-1-78
SANTA PE	SANTA FE, NEW	MEXICO 87501	
PILE :		APR 3 0 1981	Sa, Indicate Type of Lease
U.S.G.S.	_ ·	W. I. 6 0 1901	State X Fee
LAND OFFICE		0.00	5. State Oil & Gas Lease No.
OPERATOR /	J	O. C. D.	1 647-320
		ARTESIA, OFFICE	647-363 647-368
	ORY NOTICES AND REPORTS ON THE POPULATION OF PLUC BANGE COLOR FOR SUCH AND COLOR FOR SUCH		
		•	7. Unit Agreement Name
OIL X WELL WELL	OTHER-		Empire Abo Pressure Maintenance Project
	& Gas Company		8. Farm or Lease Name
	of Atlantic Richfield Co.	. /	Empire Abo Unit "J"
. Address of Operator		•	9, Well No.
P.O. Box	1710, Hobbs, NM 88240		241
4. Location of Well			10. Field and Pool, or Wildcat
UNIT LETTER H	1950 FEET FROM THE North	LINE AND660FEET FROM	Empire Abo
_			
THE East LINE, SECT	18S	RANGE 28E HMPM.	XIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
	15. Elevation (Show whether I	DF, RT, GR, etc.)	12. County
	3657.2	2' GR	Eddy
Charles Charles	Appropriate Box To Indicate Na	ature of Notice Papart or Oth	or Data
	INTENTION TO:	•	
NOTICE OF	INTENTION TO:	SOBSEQUENT	REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABAHDON		COMMENCE DRILLING OPHS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING	CHANGE PLANS	CASING TEST AND CEMENT JOB X Pro	
		OTHER Log, DST, drill	drainhole x
OTHER	<u>~</u>	acidize, test &	comp
17. Describe Proposed or Completed (work) SEE RULE 1603.	Operations (Clearly state all pertinent deta	ils, and give pertinent dates, including	estimated date of starting any proposed
Commenced drlg 8-3/4"	'hole @ 980' 7:45 p.m. 1-6	-81. Had small wtr flow	@ 1100'. Water flow
stopped. Finished drl	lg 8-3/4" hole to 6200' on	1-29-81. RIH w/6" bit. c	Irlg 6" hole to
	-30-81. Ran DLL, MLL, CNL-F		
8-3/4" DST #1 6080-	-6172', test failed. DST #2	6080-61051 attempted 4	OT no indication
J J, 7 . 1 DJI #19 0000	oria a coor ratton, not 1/2	, oooo oros , arrempred t	o or, no indication

tools opened. POH w/tools, rec 12' mud & filtrate. Chart indicated TO 30 mins. IHP 2992, IFP 42, FFP 42, FHP 2992, teleflow indicated no press. DST #3, 6060-6085', TO @ 10:43 A.M. 2-5-81 for 14 mins flow period. Max P 2 PSIG, tool closed @ 10:57 a.m. IHP 2996, FFP 0, FHP 2996. DST #4, 6145-6170'. TO @ 12:32 p.m. for 16 mins. flow period. O PSIG, tool closed @ 12:48 p.m., IHP 3038, FFP no build, FHP 3038. DST #5, 6165-6190', TO @ 1:25 p.m. for 15 min ed

Flow period, tool closed @ 1:40 p.m., O PSIG, IHP 3038, FFP 42, no buil	d, FHP 3038, rec 34'
of drlg mud. POH w/test tools. RIH w/7" OD 23# K-55 csg set @ 6228', DV	tool @ 4009'. Cmtd
1st stage w/420 gals SAM-5 mud flush; 250 sx HOWCO light cont'g 6# salt	/sk, 6# gilsonite/sk,
划 flocele/sk followed by 300 sx Class "C" 50/50 Pozmix cont'g 2% gel,	
Halad-9. PD @ 4:45 p.m. 2-7-81. Opened DV tool circ 70 sx cmt to surf.	
DV tool @ 4009' w/825 sx HOWCO light cont'g 6#/sk salt, 6# gilsonite/sk	
by 100 sx C1 C cmt cont'g 6# salt/sk. PD @ 8:50 p.m. 2-7-81. Circ 110 s	x cmt to surf.WOC.
RIH w/bit, drld DV tool @ 4009'. Press tested 7" csg to 1500# for 30 mi	ns. OK. CO 6" hole
6220-6325'. Ran GR-CBL/Collar log 0-6306'. TOC @ surface. Ran DP OE to	6325', spotted 35 sx
C1 H cmt cont'g 0.3 of 1% CFR-2 & 3# salt/sk. RO 2.5 bbls cmt. RIH w/6"	
16. I hereby certify that the information above is true and complete to the best of my knowledge and belief.	(over)
SIGNED DIST. Dr. S. Supt.	DATE 4-29-81
1006	***** 0 1 1003
APPROVED BY (N.C.) X TOSSELL TITLE SUPERVISOR DISTRICT TO	MAY 0 1 1981
CONDITIONS OF APPROVAL, IF ANY:	
Programme to the contract of t	

drld cmt to 6257', good cmt, circ hole clean. PBD 6257'. RIH w/anchor pipe, whip-stock assy, sheath pipe, hold down & lang sub w/ setting tool. Oriente hipstock to N78°E. Whipstock Zenith set @ 6224.45' SLM, 62:6.65' TVD. Commenced drlg 4-3/4' drainhole 2-28-81. Drld 4-3/4" hole 6224'- 6242'. Ran survey single shot @ 6240' SLM 34°(N7°E), N61°E true. SLM 6240 TVD 6231.68' North + 8.28 (278.05), East -5.1 (-47.22) Closure 281.98 @ N9.64W. RIH w/bit. drld 6242'-6257'. POH w/bit. Ran WL survey @ 6255.5' 38°N58°E, true 38°N69°E, depth 6255.5, TVD 6243.68' North 276.44, East -39.67, closure 279.27 @ N8°W. RIH w/4-3/4" bit, drld 6257-6276.5'. POH w/bit. Survey @ 6274.5', 150N110E true, TVD 6260.57' E-34.49 N282.62 Closure 284.72 N7°W on 3-6-81. WIH w/retr tool, latched into landing sub, relsd whipstock & oriented to 270°W. Reset whipstock. POH w/setting tool. Run bit into Drainhole #1 N78°E to TD @ 6276.5'. POH w/bit. Ran retr hd, POH w/whipstock. Ran 6" bit to 6257', circ hole clean. POH w/bit. RIH w/ anchor pipe, whipstock, sheath pipe, hold down landing sub on setting tool. Oriented whipstock to N80°W, set whipstock & POH w/setting tool. Whipstock Zenith set @ 6224.45 SLM. Commenced drlg Drainhole #2 on 3-13-81. Ran 4-3/4" bit to 6224.45' SLM. 2700 true west, drld to 6246.45. POH w/bit. Ran survey @ 6244.45' TVD 6234.15', 48°S61°W true, E-W60.80 N-S267.67, closure 274.49' N12.8°W. Drld 4-3/4" hole 6246.45'-6261.45'. POH w/bit. Ran survey @ 6259.5', TVD 6241.13', 76°S76°W, true E-W73.00', N-S262.98' closure 272.92' N15.5°W. Drld 4-3/4" hole 6261.45'-6267.95'. POH w/bit. Ran survey @ 6266' 85.5° N89°W-79.36, N-S 262.31, TVD 6242.17, closure 274.05' N 16.8°W. Drld 4-3/4" hole 6267.95'-6293'. POH w/bit. Ran survey @ 6291' 89°N81°W, 266.49' North, 104.21 West, TVD 6243.37', closure 286.13 N21W. Drld 4-3/4" hole 6293-6328'. POH w/bit. Ran single shot survey @ 6326', 89.5° N85°W, 270.75'North, 138.94' West, TVD 6243.83'. Drld 4-3/4" hole 6238-6386'. POH w/bit. Ran survey @ 6384', TVD 6243.58' 91°N83°W, E-W 196.62, N-S 276.81. Closure 339.53' @ 35°NW. Extended to TD @ 6386', 90°N83°W, E-W 198.60, N-S 277.06, TVD 6243.54', closure 340.89 @ N35.6°W. Total departure to west from vertical hole (146.27') total drainhole drld 162'. Displ hole w/fm wtr, spotted 500 gals 15% HCL-LST NE-FE acid @ 6376'. Rev out @ 6224'. RIH w/2-3/8" TP, 7" model R pkr on 150 jts 2-3/8" tbg, set pkr @ 6076'. In 10 hrs swbd 0 BO, 3 BLW. RIH w/1" coil tbg to 6386', spot 250 gals 15% HCL-LSTNE-FE Dbl inhibited acid. POH w/ coil tbg. Pressured tbg/csg annulus to 1200#, loaded tbg w/19.6 bbls acid 60/40-60% 15% HCL-LSTNE-FE, dbl inhibited & 40% Xylene, pmpd 2.2 bbls acid @ .01 BPM @ 1200 psi, Fm holding @ 1100 psi when SI. Treated Abo fm 6224-6386' w/3000 gals 60/40, 60% 15% HCL-LSTNE-FE db1 inhibited & 40% Xylene, flushed w/23.5 bbls 2% KCL wtr. Swbd Abo 6224-6386' 8 hrs, rec trace of oil, 22.5 BLW, show of gas. RIH w/1" coil tbg to 6386. Acidized Abo fm 6224-6386 w/20 BO, 500 gals mod 303 (29% HCL) & 714 gals PAD acid 60/40 mod 303 Xylene, unable to move acid @ 5000 psi. POH w/coil tbg. RIH w/ loaded tbg w/546 gals PAD acid, treated Abo fmn w/total of 5500 gals, flushed w/23 BO. In 8 hrs swbbd Abo Fmn 6224-6386', 26 BLO, 43 BLW. On 4-17-81 swbd Abo Fmn 6224-6386', 46 BO, 31 BLW. SITP 45 psi. POH w/pkr & tbg. RIH w/comp assy. set SN @ 6127'. RIH w/rod pump. On 24 hr potential 4-28-81, pmpd 34 BO, 30 BW, 36 MCFG, GOR 1059:1. FINAL REPORT

drld cmt to 6257', good cmt, circ hole clean. PBD 6257'. RIH w/anchor pipe, whip-stock assy, sheath pipe, hold down & landing sub w/ setting tool. Oriented whipstock to N78°E. Whipstock Zenith set @ 6224.45' SLM, 6216.65' TVD. Commenced drlg 4-3/4" drainhole 2-28-81. Drld 4-3/4" hole 6224'- 6242'. Ran survey single shot @ 6240' SLM 34°(N7°E), N61°E true. SLM 6240 TVD 6231.68' North + 8.28 (278.05), East -5.1 (-47.22) Closure 281.98 @ N9.64W. RIH w/bit, drld 6242'-6257'. POH w/bit. Ran WL survey @ 6255.5' 38°N58°E, true 38°N69°E, depth 6255.5, TVD 6243.68' North 276.44, East -39.67, closure 279.27 @ N8°W. RIH w/4-3/4" bit, drld 6257-6276.5'. POH w/bit. Survey @ 6274.5', 15°N11°E true, TVD 6260.57' E-34.49 N282.62 Closure 284.72 N7°W on 3-6-81. WIH w/retr tool, latched into landing sub, relsd whipstock & oriented to 270°W. Reset whipstock. POH w/setting tool. Run bit into Drainhole 11 N78°E to TD @ 6276.5'. POH w/bit. Ran retr hd, POH w/whipstock. Ran 6" bit to 6257', circ hole clean. POH w/bit. RIH w/ anchor pipe, whipstock, sheath pipe, hold down landing sub on setting tool. Oriented whipstock to N80°W, set whipstock & POH w/setting tool. Whipstock Zenith set @ 6224.45 SLM. Commenced drlg Drainhole #2 on 3-13-81. Ran 4-3/4" bit to 6224.45' SLM, 270° true west, drld to 6246.45'. POH w/bit. Ran survey @ 6244.45' TVD 6234.15', 48°S61°W true, E-W60.80 N-S267.67, closure 274.49' N12.8°W. Drld 4-3/4" hole 6246.45'-6261.45'. POH w/bit. Ran survey @ 6259.5', TVD 6241.13', 76°S76°W, true E-W73.00', N-S262.98' closure 272.92' N15.5°W. Drld 4-3/4" hole 6261.45'-6267.95'. POH w/bit. Ran survey @ 6266' 85.5° N89°W-79.36, N-S 262.31, TVD 6242.17, closure 274.05' N 16.8°W. Drld 4-3/4" hole 6267.95'-6293'. POH w/bit. Ran survey @ 6291' 89°N81°W, 266.49' North, 104.21 West, TVD 6243.37', closure 286.13 N21W. Drld 4-3/4" hole 6293-6328'. POH w/bit. Ran single shot survey @ 6326', 89.5° N85°W, 270.75'North, 138.94' West, TVD 6243.83'. Drld 4-3/4" hole 6238-6386'. POH w/bit. Ran survey @ 6384', TVD 6243.58' 91°N83°W, E-W 196.62, N-S 276.81. Closure 339.53' @ 35°NW. Extended to TD @ 6386', 90°N83°W, E-W 198.60, N-S 277.06, TVD 6243.54', closure 340.89 @ N35.6°W. Total departure to west from vertical hole (146.27') total drainhole drld 162'. Displ hole w/fm wtr, spotted 500 gals 15% HCL-LST NE-FE acid @ 6376'. Rev out @ 6224'. RIH w/2-3/8" TP, 7" model R pkr on 150 jts 2-3/8" tbg, set pkr @ 6076'. In 10 hrs swbd 0 BO, 3 BLW. RIH w/1" coil tbg to 6386', spot 250 gals 15% HCL-LSTNE-FE Dbl inhibited acid. POH w/ coil tbg. Pressured tbg/csg annulus to 1200#, loaded tbg w/19.6 bbls acid 60/40-60% 15% HCL-LSTNE-FE, db1 inhibited & 40% Xylene, pmpd 2.2 bbls acid @ .01 BPM @ 1200 psi, Fm holding @ 1100 psi when SI. Treated Abo fm 6224-6386' w/3000 gals 60/40, 60% 15% HCL-LSTNE-FE dbl inhibited & 40% Xylene, flushed w/23.5 bbls 2% KCL wtr. Swbd Abo 6224-6386' 8 hrs, rec trace of oil, 22.5 BLW, show of gas. RIH w/1" coil tbg to 6386". Acidized Abo fm 6224-6386' w/20 BO, 500 gals mod 303 (29% HCL) & 714 gals PAD acid 60/40 mod 303 Xylene, unable to move acid @ 5000 psi. POH w/coil tbg. RIH w/ loaded tbg w/546 gals PAD acid, treated Abo fmn w/total of 5500 gals, flushed w/23 BO. In 8 hrs swbbd Abo Fmn 6224-6386', 26 BLO, 43 BLW. On 4-17-81 swbd Abo Fmn 6224-6386', 46 BO, 31 BLW. SITP 45 psi. POH w/pkr & tbg. RIH w/comp assy, set SN @ 6127'. RIH w/rod pump. On 24 hr potential 4-28-81, pmpd 34 BO, 30 BW, 36 MCFG, GOR 1059:1. FINAL REPORT

ENERGY AND MINERALS DEPARTMENT		
NO. OF COPIES ACCEIVED OIL CONS	SERVATION DIVISI 1	
DISTRIBUTION	P. O. BOX 2083 RECENSED	Form C-103
SANTA FE SANTA F	E, NEW MEXICO 87501	. Revised 10-1-7
FILE //		Lo Indicate Tune of Leave
U.S.O.S.	JAN 1 3 1381	5a. Indicate Type of Lease
LAND OFFICE		State [Y]
OPENATOR /	O. C. S.	5. State-Oil & Gas Lease No.
To state the seconds of a material production of the second secon		1 04/-308
SUNDRY NOTICES AND REPO	ARTESIA, OFFICE	ministration
JUNDA I NOTICLA AND REF (00 NOT USE THIS FORM FOR PROPOSALS TO PAILL OR TO DEEPE USE "APPLICATION FOR PERMIT —" (FORM C-1	OR PLUG BACK TO A DIFFERENT RESERVOIR.	
USE "APPLICATION FOR PLRMIT _" (FORM C-1	DI) FOR SUCH PROPOSALS.)	
ا دمع ال		7. Unit Agreement Name Empire Abo Pressure
WELL OTHER-		Maintenance Project
Name of Operator ARCO Oil & Gas Company		8. Form or Lease Name
Division of Atlantic Richfie	eld Co.√	Empire Abo Unit "J"
., Address of Operator		9. Well No.
P.O. Box 1710, Hobbs, New Me	xico 88240	241
Location of Well		10. Field and Pool, or Wildcat
	North 660	1
UNIT LETTER H 1950	NOT LIT LINE AND PEET PRO	Empire Abo
	1	
THE East LINE, SECTION 6 TOWNSHIP	18S 28E	
15. Elevation (Sho	w whether DF, RT, GR, etc.)	12. County
	657.2' GR	Eddy ()
	**	
Check Appropriate Box To In	dicate Nature of Notice, Report or O	ther Data
NOTICE OF INTENTION TO:	SUBSEQUE	NT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABA	NDON REMEDIAL WORK	ALTERING CASING
"EMPORARILY ABANDON	COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING CHANGE PLANS		L
OCC ON ACTEN CASINO		urrace
	OTHER	
OTHER		
7. Describe Proposed or Completed Operations (Clearly state all pe	tinent details, and give pertinent dates, including	or estimated data of starting and second
work) SEE RULE 1103.	them details, and give pertinent dates, including	ig estimated date of starting any proposed
Spudded 12-1/4" hole @ 10:30 a.m. 1-3-81		
RIH w/Q-5/8" OD 36# K-55 csg set @ 980	'. FC set @ 937'. Cmtd 9-5/8"	OD csg w/300 sx BJ Lite
cmt cone'g ¼# cello flake/sk, 5# Gilso	nite/sk, 2% CaCl, followed by	100 sx C1 C cmt w/2% CaC1
no cmt circ to surf. Ran Kobe tbg to T		
thru Kobe tbg w/50 sx C1 C Cmt w/2% Ca	Cl. WOC 20% hrs. Pressure te	st casing to 1000# for
30 mins. OK.	2	8
JO MIII3. OK.		
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•		
•		
d. I hereby certify that the information above is true and complete to	the best of my knowledge and belief.	
0 -0 0 81		
John () Schundt	Dist. Drlg. Supt.	1-8-81
TICHED T	Are proce prize onhe.	DATE 1-0-01
m h 1.111		

STATE OF NEW MEXICO

CONDITIONS OF APPROVAL, IF ANY