STATE OF				5ERVA P. 0. 807		ISIC.	-	Form C-101 Revised 10		11-1
DISTRIBU	TION	-1			MEXICO 87	501			e Type of Loase	
SANTA FE			SANTA	G, 14G1F	MEXICO 87	201		STATE	ΓΩΠ Γ	
FILE										
U.S.G.S.								5. State Off	& Gas Loase No.	
LAND OFFICE	Ε							NM-7	52	
OPERATOR		_ ]				_		ALLIN	MMMM	$\pi$
AP	PLICATION F	OR PERMIT	TO DRILL	, DEEPE	N, OR PLUG	BACK		7//////		1111
1s. Type of Work								7. Unit Agr	eement Name	777
b. Type of Well	DRILL		DEEPE	м 🔲		PLUC				
	GAS WELL		• • •		SINGLE	м		8. Farm or 1		
2. Name of Operator		OTHER			ZONE		ZONE		State 30	
								9. Well No.		
	& Gas Compa	any				_		2		
3. Address of Opera								10. Field an	d Pool, or Wildcat	
	1610, Midla	and, Texas	5 79702					Double-	A Abo, South	h
4. Location of Well	UNIT LETTER	<u>A</u>	_ LOCATED	990	FEET FROM THE	Nort	th	IIIII	ann	$\overline{\Pi}$
AND 990	FEET FROM THE	East	LINE OF SEC.	30	TWP. 175	RGE.	36E NMPM			Ŵ
								12. County Lea		ŢŢ
									<u> </u>	
MMMM	THHHHH	THINK I	IIIII	IIIII	19. Proposed De	epih	19A. Formatio	n	20. Rotury or C.T.	-777
		MIM		IIIII	9550		Abo De	etrital	Rotary	
1. Lievations (show		esc.) 21A.	Kind & Status	Plug. Bond	21B. Drilling Co	ontractor		22. Approx	. Date Work will sto	
3875.25	GR	Sta	tewide B1	anket	Not Assi	gned		4-25		-
23.					4 <u></u>					
			PROPOSED	D CASING A	ND CEMENT PRO	OGRAM				

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
<u> </u>	13 3/8	54.5	400	500	Surf
11	8 5/8	24	3600	1400	Surf
7 7/8	5 1/2	15.5 & 17	9550	2250	950
	1	ł		1	

.

Attachments:

Drilling prognosis
BOP Program

,

I hereby certify that the information above is true and comp	plete to th	e best of my knowledge and bellef.		
Signed Kenau Gosnell	_ Tüle	Engr. Tech. 915 688-5672	Date	4-7-88
(This space for State Use)		<u></u>		
ORIGINAL SIGNED BY JERRY SEXTON			DATE	APR 1 1 1988
CONDITIONS OF APPROVAL, IF ANYI				
		Permit Expires 6 M Date Unless Drilling		•• •

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## NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

. .

Dermor			Lea	ne outer boundaries of			Well No.
)perator AR(	CO JIL & GAS	ca		Atlantic	State 30		2 Xell No.
nit Letter	Section	Township		Range	County		······································
A	30	17 So	uth	36 East		lea	
	Location of Weil:						
990	feet from the		line and		et from the	east	line Optingtod Approx
ound Level Ele 3875.		etrital	Pool	oub <b>le -</b> A, So	nth		Dedicated Acreage: 40
	the acreage dedi						Acre
interest	and royalty).					-	hereof (both as to workin
dated by	y communitization.	, unitization, forc answer is "yes?"	e-pooling. e type of cor	tc? neolidation			all owners been consol;
	er is "no," list th n if necessary.)	e owners and tra-	ct descripti	ons which have a	ctually bee	n consolid	ated. (Use reverse side o
No allow	wable will be assig	-					munitization. unitization approved by the Commis
sion.	outing, or otherwis	e or until a non-	standard UN	i, ciminating su	ta micresis	, nas been	approved by the Commis
					<u>z / </u>	<u> </u>	
	1						CERTIFICATION
	I		•				
	l			1 0	Y	l hereby (	<b>certify that the information</b> cor
	I			i și		tained he	rein is true and complete to th
				· · · · · · · · · · · · · · · · · · ·	o'	Ken	whowledge and belief. W.Josnell W. Gosnell
	1					Nome	
•		+				Eng	r. Tech.
	1			I		Position	
	ł		٦	1		ARC	0 Oil & Gas Co.
	l					Company	1 7 00
	i 1			i			4-7-88
	<b>I</b> 1					Date	
	I i			 			<u></u>
	1		-			l hernby	certify that the well locatio
	ł			Fellow		shown on	this plat was plotted from fiel
	1		220			notes of	actual surveys made by me
	ł		1/ a so this	5 5 1 - F		under my	supervision, and that the sam
	I		152			is true a	ind correct to the best of m
	ł					know ledge	and belief.
	· +		t				· · ·
	1		N. Kon	10/0/1			
	1			11 1 1 1	1	Date Survey	
	ł		HN	W. WE man		<u>Mar.</u> 3	0, 1988
	¥		A STATE OF THE STA	T			Professional Engineer
	1			1		and/or Land	Surveyor
`	 l			 		SU.	mW best
						-Certificate	
330 860	90 1320 1680 1	980 2310 2640	2000	1500 1000 1	800 C a		RONALD J. EIDSON, 32



	Date
Atlantic State "30" No.2	February 18, 1
rict or province	
Central District	
990' FNL & 990' FEL, Sec 30-T	17S-R36E
Lea County, New Mexico.	
Lower Abo; Upper Abo	
vertical depth	
9500'	Total measured depth
Record KB. and GL. elevation	on the first Daily Drilling Report
Queen - 4180'	Upper Abo - 8813'
San Andres - 4950' Glorieta - 6600'	Lower Abo - 9135' Abo Reef - 9329'
<u>Tubb</u> – 7380'	
uctor	Well design
ce casing 13-3/8" 54.5#, K-55, STC Casi	<pre>+/_ 40'. Grouted to surface with redi-mix</pre>
ce casing 13-3/8" 54.5#, K-55, STC Casi	
ce casing 13-3/8" 54.5#, K-55, STC Casin Cemented to surface with 500 strive casings and liners 8-5/8" 24#, K-55, STC Casing v	ng will be set at +/ 400'
ce casing 13-3/8" 54.5#, K-55, STC Casin Cemented to surface with 500 strive casings and liners 8-5/8" 24#, K-55, STC Casing v	ng will be set at +/_ 400' sxs. of Class "C" with 2% CaCl2 will be set in 11" hole at +/ 3600'
ce casing 13-3/8" 54.5#, K-55, STC Casin Cemented to surface with 500 Stive casings and liners 8-5/8" 24#, K-55, STC Casing with Cemented to surface with 1200 Ction casing 5-1/2" 15.5# & 17# K-55, LTC (	ng will be set at +/_ 400' sxs. of Class "C" with 2% CaCl2 will be set in 11" hole at +/ 3600'
The casing $13-3/8$ " 54.5#, K-55, STC Casing Cemented to surface with 500 stitue casings and timers $8-5/8$ " 24#, K-55, STC Casing with Cemented to surface with 1200 commented to surface with 1200 $5-1/2$ " 15.5# & 17# K-55, LTC (Cemented to $8-5/8$ " CSG with 20 Neat Class "H" cement.	ng will be set at +/_ 400' sxs. of Class "C" with 2% CaCl2 will be set in 11" hole at +/_ 3600' sxs of "Lite" and 200sxs of Cl."C" Neat Casing will be set in a 7-7/8" hole at TD 000 sxs. of "Lite" followed by 250 sxs. of
The casing 13-3/8" 54.5#, K-55, STC Casing Cemented to surface with 500 Stive casings and liners 8-5/8" 24#, K-55, STC Casing v Cemented to surface with 1200 Chon casing 5-1/2" 15.5# & 17# K-55, LTC ( Cemented to $8-5/8"$ CSG with 20 Neat Class "H" cement. Chon liner phead 8-5/8" X 11" 3000 psi. W.P. We	ng will be set at +/_ 400' sxs. of Class "C" with 2% CaCl2 will be set in 11" hole at +/_ 3600' sxs of "Lite" and 200sxs of Cl."C" Neat Casing will be set in a 7-7/8" hole at TD 000 sxs. of "Lite" followed by 250 sxs. of
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$\frac{13-3/8"}{13-3/8"} 54.5\#, K-55, STC CasinCemented to surface with 500Stive casings and timers8-5/8" 24#, K-55, STC Casing withCemented to surface with 1200Cumented to surface with 1200\frac{5-1/2"}{15.5\# \& 17\# K-55, LTC (Commented to 8-5/8" CSG with 20)}Neat Class "H" cement.Clion linerStore linerInead8-5/8" X 11" 3000 psi. W.P. Werogram 0 - 400' F.W. Spud mud; us400'- 3600' Brine Water with$	ng will be set at +/_ 400' sxs. of Class "C" with 2% CaCl2 will be set in 11" hole at +/_ 3600' sxs of "Lite" and 200sxs of Cl. "C" Neat Casing will be set in a 7-7/8" hole at TD 000 sxs. of "Lite" followed by 250 sxs. of elded casinghead se gel and lime as required for sweeps viscous pills to clean hole.
$\frac{13-3/8"}{54.5\#}, K-55, STC CasinCemented to surface with 500Stive casings and timers8-5/8" 24#, K-55, STC Casing vCemented to surface with 1200Channel to surface with 1200\frac{5-1/2"}{5.5\#} & 17\# K-55, LTC (Commented to 8-5/8" CSG with 20Neat Class "H" cement.Chan LinerChan Liner\frac{8-5/8"}{24\#}, K-55, STC Casing vCasing 5-1/2" 15.5# & 17\# K-55, LTC (Commented to 8-5/8" CSG with 20Neat Class "H" cement.Chan Liner\frac{8-5/8"}{24\#}, K-55, STC Casing vCasing 5-1/2" 15.5# & 17\# K-55, LTC (Commented to 8-5/8" CSG with 20Neat Class "H" cement.Chan Liner\frac{8-5/8"}{24\#}, K-55, STC Casing vCasing 5-1/2" 15.5# & 17\# K-55, LTC (Commented to 8-5/8" CSG with 20Neat Class "H" cement.Class State Stat$	ng will be set at +/_ 400' sxs. of Class "C" with 2% CaCl2 will be set in 11" hole at +/_ 3600' sxs of "Lite" and 200sxs of Cl. "C" Neat Casing will be set in a 7-7/8" hole at TD 000 sxs. of "Lite" followed by 250 sxs. of elded casinghead se gel and lime as required for sweeps viscous pills to clean hole.
The casing 13-3/8" 54.5#, K-55, STC Casing Cemented to surface with 500 strue casings and timers $8-5/8$ " 24#, K-55, STC Casing with 200 Cemented to surface with 1200 $5-1/2$ " 15.5# & 17# K-55, LTC (Cemented to $8-5/8$ " CSG with 20 Neat Class "H" cement. Chon timer $1000$ psi. W.P. We require the formula of the formul	ng will be set at +/_ 400' sxs. of Class "C" with 2% CaCl2 will be set in 11" hole at +/_ 3600' sxs of "Lite" and 200sxs of Cl."C" Neat Casing will be set in a 7-7/8" hole at TD 000 sxs. of "Lite" followed by 250 sxs. of elded casinghead se gel and lime as required for sweeps viscous pills to clean hole. em. olymer to reduce W.L. to 15cc. Visc.30-40 s
$\frac{13-3/8"}{54.5\#}, K-55, STC CasinCemented to surface with 500Stive casings and timers8-5/8" 24#, K-55, STC Casing vCemented to surface with 1200Channel to surface with 1200\frac{5-1/2"}{5.5\#} & 17\# K-55, LTC (Commented to 8-5/8" CSG with 20Neat Class "H" cement.Chan LinerChan Liner\frac{8-5/8"}{24\#}, K-55, STC Casing vCasing 5-1/2" 15.5# & 17\# K-55, LTC (Commented to 8-5/8" CSG with 20Neat Class "H" cement.Chan Liner\frac{8-5/8"}{24\#}, K-55, STC Casing vCasing 5-1/2" 15.5# & 17\# K-55, LTC (Commented to 8-5/8" CSG with 20Neat Class "H" cement.Chan Liner\frac{8-5/8"}{24\#}, K-55, STC Casing vCasing 5-1/2" 15.5# & 17\# K-55, LTC (Commented to 8-5/8" CSG with 20Neat Class "H" cement.Class State Stat$	ng will be set at +/_ 400' sxs. of Class "C" with 2% CaCl2 will be set in 11" hole at +/_ 3600' sxs of "Lite" and 200sxs of Cl."C" Neat Casing will be set in a 7-7/8" hole at TD 000 sxs. of "Lite" followed by 250 sxs. of elded casinghead se gel and lime as required for sweeps viscous pills to clean hole. em.

Coring program

N/A

Drill stem tests

N/A

Samples

Every 10' from 3600' to TD.

Fiuld samples

Send all fluid samples recovered to lab. for chemical analysis.

## Mud logging

Two man unit from 3600' to TD.

Evaluation

Campletion

Set 5-1/2" production casing at 9500'. Cement back to 8-5/8" CSG; bump cement plug with 2% KCL water. Perforate Lower Abo in 9160'-9200' and Upper Abo in 8850-8950' intervals. Stimulate Lower Abo with 4000 gal. 15% HCL NEFE at 3-4 BPM, and Upper Abo with 6000 gal. 15% HCL NEFE at 3-4 BPM.



MINIMUM BOP AND CHOKE MANIFOLD REQUIREMENTS

