Case 8756

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of the earlier submittal.

I.	Application qualifies for administrative approval? .es Inu Operator: Cibola Energy Corporation
• •	P. O. Box 1668, Albuquerque, NM 87103
	Contact party: Phelps White Phone: (505) 843-6762
•	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
•	Is this an expansion of an existing project? \square yes \square no If yes, give the Division order number authorizing the project
•	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- •	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
t.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
•	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
•	Describe the proposed stimulation program, if any.
•	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. None available
•	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
•	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
•	Certification
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Phelps White Title Vice President
	Signature: Date: 02

III. HELL DATA

- 4. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schemutic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- 3. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each lessehold operator within one-half mile of the well location.

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where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells:
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

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Cibola OPERATOR	a Energy Corporation	Aciete Negra #2 LEASE	
2	1650 FSL & 1200 FEL	12	9S 27E
WELL NO.	E LOCATION	SECTION	TOWNSHIP RANGE
	O. Tamatio		Tahiilar Data
2	ווכוווסנדל		במחתומו חמנמ
		Surface Casing	
		Size 8'5/8"	" Cemented with 650 sx.
	<u>///</u>	TOC Surface	feet determined by sight
1645		Hole size10"	
. <i>1</i>		Intermediate Casing	
		Size	" Cemented with sx.
		TOC	feet determined by
		Hole size	
		Long String	
		Size	" Cemented with sx.
X Maac	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	TOC	feet determined by
		Hole size	
	MAXXXXXXXX	Total Depth	
		Injection Interval	
TD 7150'		feet t (perforated or open	et to open-hole, indicate which)

R 28 E R27E T 8 S ♦ READ & STEVENS
| Poimo Meso Fed
| TD 2425
| SA 2296 6 5 CIBOLA Agus Negro TD 8183 SA 2182 П 13 17 14 9/27 19 20 24 23 ACIETE NEGRA 2 PROPOSED INJECTION WELL ™ IO−85 K.Azar Scare 1:34300 aprx. State NM Drawn by J. Grimm

1 1

Cibola Energy Corporation
P. O. Box 1668
Albuquerque, NM 87103

Aciete Negra #2 1650 FSL & 1200 FEL Sec. 12-9S-27E Chaves Co.. NM

VII

- 1. This field is currently producing approximately 170 Barrels of water per day. We plan put the Aciete Negra #4 on a pipeline allowing a constant flow of approximately 170 barrels per day.
- 2. With the exception of adding anti-scale agents to the disposal water, this will be a closed system.
- 3. Injection pressures are estimated to be low. We do not plan to inject fluids at more than 1000 psi.
- 4. We plan to inject fluids from the Aciete Negra #4 which is producing from the Siluro Devonian Formation at 6485-6510'. A water sample from this zone will be submitted as soon as possible.
- 5. Attached is a chemical analysis of San Andres Formation water collected from the Race Track Field located 7 miles south of the proposed injection well.

IX

We plan to drill out the plugs from surface through 2250'. Then we will run 4 1/2" casing to approximately 2320 to be cemented with 125 sx of cement in order to bring cement to 8 5/8" surface casing. We will then perforate 2234-52, 2270-78, 2282-88, 2294-98 with 2 spf. We will then acidize this zone with approximately 7200 gallons of 28% acid with anti-scaling additives before injecting any disposal fluids.

Χ

Logs for the Aciete Negra #2 well were submitted to the NMOCD with the original C-105.

XII

We, A.D. Turquette and Steve Jensen, have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Aciete Negra #2 1650 FSL & 1200 FEL Sec. 12-9S-27E Chaves Co., New Mexico

VIII A mudlog is enclosed to show lithology of the injection zone.

<u>INJECTION ZONE</u> - The injection zone is a dolomite in the San Andres Formation. Approximately 36 feet of this formation will be the injection zone.

DRINKING WATER 0-450' Santa Rosa Sand

AFFIDAVIT OF PUBLICATION

County of Chaves
State of New Mexico,
I,
0.000 c.000
Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published once a week in the regular and entire issue of said paper and not in a supplement thereof for a period
of
weeks
beginning with the issue dated
and ending with the issue dated
J.M. Manager
Sworn and subscribed to before me
this day of
John Ba Petter Notary Public
My commission expires
(Seal) (Seal)

Publish October 11, 1985.

NOTICE OF APPLICATION

Cibola Energy Corporation, P.O. Box 1668, ABQ, NM 87103, has filed to the Oil Conservation Division to convert to Aciete Negra #2 to an injection well. The Aciete Negra #2, 1650 FSL & 1200 FEL, Sec. 12-95-27E, Chaves Co., will be converted for the purpose of salt water disposal into the San Andres Formation 2200-2400'. The maximum injert will be 320 Bbls/day; max pressure 1000#. Any questions should be directed to Phelps White at (505) 843-6762. Interested parties must file objections or requests for hearing with N-MOCD, P.O. Box 2088, Santa Fe, NM 87501 within 15 days.

ILLEGIBLE

Form 9-330 (Rev. 1-62)	DE 103	NO OF	NE WE	'/\'\	TES				A	- Bu	rm approved. dget Bureau No. 42-R355,6.
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b. TYPE OF COMP	LETION:	Elm	T PLEST	\$/ _{D1}	F.F. []	*		C 43.			Negra
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Cibola Er		Corpo	ration							9. WELL NO.	regra
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				1 -2.						Chaves	
15. DATE SPEDDED	16. DATE T	D. REACH	ED 17. DAT			1	18. ELE	I) BROITAT	P, RKB,		19. ELEV. CASINGHEAD
12/30/82		9-83			10/28			3891.0			
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DATE OF TEST	HOURS TEE	TED	CHOKE SIZE		D'N. FOR T PERIOD	OIL—BE	L.	CAS—M	CF.	WATER-BBL.	GAS-OIL BATIO
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OR. DISPUBILION OF G	(DUIU, 1281	, , иег	, 666.	,				מעחול	TD)	Mond	**************************************
35. LIST OF ATTACH	MENTS					· · · · · · · · · · · · · · · · · · ·	W	WILL	7100	KIMIK	LCEIVED -
DIL MIL C	R, BHC	Acous	tilog GR	N, CI)	olate a= 3	n e r	NUV 1	1 150		
36. I hereby certify	in All	,	12AA		ritle I			BABUELL	2.0		NÖV 2 1 1983 11/04/83
SIGNED	الالارزي				TITLE		5 000			CBG	A ENERGY CORP.

UNITED STATES

5. LEASE	
NM-18611	•

DEPARTMENT OF THE INTERIOR	NM-18611
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)	7. UNIT AGREEMENT NAME Aciete Negra 8. FARM OR LEASE NAME
1. oil gas W other	Aciete Negra 9. WELL NO.
2. NAME OF OPERATOR Cibola Energy Corporation	2 MOULA ELERAY CORP. 10. FIELD OR WILDCAT NAME Wildcat
3. ADDRESS OF OPERATOR P. O. Box 1668, Albuquerque, NM 87103 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 12-9S-27E 12. COUNTY OR PARISH 13. STATE Chaves NM
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	14. API NO. 15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF	irectionally drilled, give subsurface locations and
We circulated the hole with f/w gell	and plugged as follows:
1st plug 2250' 35 sacks cmt 2nd plug 1700' 50 sacks cmt 3rd plug 1450' 35 sacks cmt 4th plug 10 sacks at surface with dr	ry hole marker.
The location will be cleaned off and	leveled for inspection.
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. Thereby certify that the foregoing is true and correct	
SIGNED KANAL MAIN TITLE Drilling Se	ecretary 11/4/83
APPROVED his space for Federal or State off Chaptering Conditions of Approval, IF ANY:	ice use) DATE

MAY 1 8 1984

UNITED STATE	S
DEPARTMENT OF THE	INTERIOR
GEOLOGICAL SUF	RVEY

UNITE	D S	STATE	.5
DEPARTMENT	OF	THE	INTERIOR
GEOLOGI	CAL	SUR	RVEY

CHAIDDV	MOTICES	AND	REPORTS	ON	WELLS
SHNIIRY	MOTILES	AINU	REFUNIS	UIT	IILLLU

Do not use this form for proposals to drill or to deepen or plug back to a different eservoir. Use Form 9-331-C for such proposals.)
eservoir. Use rottii 3-331-6 tar 3651 proposition

other

	WEI		WE11
2.	NAME	OF	OPERATOR

1. oil

Cibola Energy Corporation

X

3. ADDRESS OF OPERATOR

P.O. Box 1668, Albuquerque, NM

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 AT SURFACE: 1650 FSL & 1200 FEL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

SUBSEQUENT REPORT OF:

5. LEASE NM 18611 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME Aciete Negra 8. FARM OR LEASE NAME Aciete Negra 9. WELL NO. 10. FIELD OR WILDCAT NAME Wildcat 11. SEC., T., R., M., OR BLK. AND SURVEY OR Sec. 12-9S-27E 12. COUNTY OR PARISH 13. STATE New Mexico Chaves

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD) 3891.0

REQUEST FOR APPROVAL TO: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON* Plug bac (other)

results of multiple completion or zone change on Form 9-330.) FEB 1 7 1983

OIL & RAS MINERALS MOUT SERINGE

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state sink bif nent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Reached TD at 7150' on January 29, 1983.

Plugged back to 2550'.

These are the following plugs: 2-2-83

1st plug 7060-6990', 35 sacks Class C Cement with 2% CaCl, 2nd plug 5950-5850', 35 sacks Class C Cement with 2% CaCl.

2nd plug 5950-5850', 35 sacks Class C Cement with 2% CaCl, 3rd plug 5706-5606', 35 sacks Class C Cement with 2% CaCl, 4th plug 5060-4960', 35 sacks Class C Cement with 2% CaCl, 5th plug 2650-2550', 35 sacks Class C Cement with 2% CaCl.

Subsurface Safety Valve: Manu. and Type _

Set @ _

18. I hereby certify that the foregoing is true and correct

SIGNED :

TITLE Drlg. Sec.

is space for Federal or State office use)

APPROVED BY CONDITIONS OF APPRO **性格型8 1983**

WUAMES A. GILLHAM

DISTRICT SUPERVISOR - See Instructions on Reverse Side

. MAR 3 1 1973

MEGLA Elizhar UURP.

5-63)

UNIY_D STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

(See other instructions on reverse side) Form approved. Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND BERIAL NO. NM 18611

WELL CO	MPLETIC	N O	R RECO	MPLETIC	ON R	EPORT	I AN	D LO	3 *	6. IF	INDIAN,	, ALLOT	TEE OR TRIB	E NAME
1a. TYPE OF WEI	LL:	WELL [GAS WELL	DRY		 Other				7. UN	IT ACRE	EEMENT	NAME	
L TYPE OF COM	PLETION:									Ac	iete	e Ne	gra	
NEW WELL	OVER X	EN	PLUG BACK	DIFF.	🔲 🕠	Other				S. FA	RM OR	LEASE	NAME	
2. NAME OF OPERA	ron									Ac	iete	e Ne	gra	
Cibo	la Ene	rgy (Corpora	tion						1 .	LL NO.			
3. ADDRESS OF OPE	RATOR						_			4				
P. (D. Box	1668,	Albuq	uerque	≥, Ne	ew Me	xico	871	03	1			OR WILDCA	r
4. LOCATION OF WE					cith any	State req	uiremen	(8)*		1	1dca			
At surface	330 F	SL &	940 FE	ı.L							EC., T., E R AREA	t., M., O	K BLOCK AND	SCHVET
At top prod. in	terval reporte	d below								Se	c. 1	12-9	S-27E	
At total depth	Same												,-	
	Dame			14. PER3	IIT NO.		DATE	ISSUED			OUNTY C)B	13. STATE	Ε
							1				aves	3	NM	
15. DATE SPUDDED			ED 17. DAT	E COMPL. (A	Ready to	prod.)	18. ELEV	ATIONS (D	F, RKB,	RT, GR, I	TC.) •	19. K	LEV. CASINGE	IEAD
3-7-85	3-25			22-85				880.2				<u> </u>		
20. TOTAL DEPTH, MD	& TVD 21.			TVD 22.	HOW M	TIPLE COM	PL.,	23. INTE	EVALS		BY TOOL	i.8 1	CABLE TO	OLS
6996		6512) -		(10	D AND SEL	2).	<u> </u>	→	0-6	996	1 25	WAS DIRECT	PTO NAT
24. PRODUCING INTE	RVAL(S), OF T	HIS COM	PLETION—TUI	, BOTTOM, N	YNE (N	D AND IV	., ·					20.	SURVEY MA	
Devon	ian 64	85-64	499									Ју	es	
26. TIPE ELECTRIC	AND OTHER LO	GS RUN										27. WA	S WELL COR	ED
Comp Neuti			paced S	Sonic.	Ceme	ent B	ond 1	[.02				N	O	
28.	оп, во	116 01		ING RECOR							<u>-</u> _			
CASING SIZE	WEIGHT,	LB./FT.	DEPTH SE	T (MD)	ног	E SIZE		CEM	ENTING	RECORD			AMOUNT PO	LLED
8 5/8"	24#		1643	}	12	L 11	60	0 sx	lite	wt	3 w/	/2%	CaCl	
	_							0 sx (
5 %"	15.	5	6995)	7	7/8''	25	0 sx	self	str	ess			
				1			145	0 sx	<u>Dowe</u>	<u> 11 1</u>	ite	st	5	
29.			ER RECORD	,				30.		TUBING				
BIZE	TOP (MD)	В01	том (мр)	SACKS CEN	ient*	BCREEN	(MD)	BIZE	— I—	DEPTH :		D) 	PACKER SET	(MD)
								2 7/	8	<u>6311</u>	·	-		
31. PERFORATION BE	COED (Intervo	ıl, size ar	nd number)	<u> </u>		82.	A C	ID SHOT	FRACT	TIRE C	EMENT	COUL	EZE, ETC.	
	,	•						L (MD)					ATERIAL DEE	
6485 (2 sl	notel					6485							R acid	-
6491 (2 sl						0405	<u> </u>						CL aci	
6497-99 (8)			•					<u>A</u>		- /0 ==		
						*SEE	EXP	LAINA	TION					
33.*						UCTION								
DATE FIRST PRODUCT	TION	PRODUCTIO	N METHOD (Flowing, gas	lift, pu	mping—s	ize and t	ype of pun	1p)	-	WELL S		(Producing	or
4-27-8	5 1		nping										roduci	
DATE OF TEST	HOURS TES	TED	CHOKE SIZE	PROD'N.		01L—BB	ь.	GAS—NO		1	EBBL.	· °	A8-OIL RATIO	,
6-24-85 FLOW, TUBING PRESS.	CASING PER	SSURE	CALCULATED	OIL-BE	-> 37	80	5— M С Г .	TST	WATER-	64	·	OII GR	AVITY-API (C	OPP)
FEG. TOBING FREES.			24-HOUR RAT			1	TS	TM I	64			OID GIL		J.L.L. ,
34. DISPOSITION OF	oas (Sold, use	d for fuel	, vented, etc.			1		1 1	- 04		WITNES	SED BY		
Vented										Bil	lv 1	Walk	er.	
35. LIST OF ATTACE	MENTS	 									<u>-, </u>			
*Explaina	tion													
36. I hereby certify	that the for	egoing ar	nd attached i	nformation	is comp	lete and c	orrect as	determine	d from	ali ava	ilable re	cords		
ara le	Jason.	()	MA.		Dr	illin	g Se	creta	ry		5		6/85	
SIGNED			74~~	TIT	LE						DATE			

ROSWELL RESOURCE AREA

Form Approved.

Ferm 5-330 (Rev. 1-63)	UNIED STATES SUPMIT IN DUPLING (See									other in-	Form approved. Budget Bureau No. 42-R355.5.		
	DEPAI			F THE		IERI	OR 			nons on se side)	S. LEASE NM 14		ATION AND SERIAL NO.
WELL CON	MPLETIO	N OR	RECO	MPLETIC	ON R	EPOR	A TS	ND	LOC	3 *	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
18 TYPE OF WELL	L:	WELL	WELL	DR.	XX	Other					7. UNIT	CREEMI	INT NAME
b. TYPE OF COMP		WILL CO					-				Agua	Neg	ra
NEW X	WORR [DEEP-	PLTG DACK	DIFF.	. 🗆	Other					8. FARM		
2. NAME OF OPERATI	01772										Agua	Neg	ra
Cibola		Corp	orati	on							9. WELL		· · · · · · · · · · · · · · · · · · ·
3. ADDRESS OF OPER											2		
P. O. B	P. O. Box 1668, Albuquerque, New Mexico									10. FIELD	AND PO	OOL, OR WILDCAT	
4. LOCATION OF WEL	L (Report loc	ation clear	y and in	accordance	with any	State re	equirer	ments) =		Wildo	at	
At surface 2	2310 FNL & 990 FEL									II. SEC., OR AI		., OH BLOCK AND SCRVEY	
At top prod. inte	erval reported	pejow.									C		0 00 000
At total depth											Sec	:. I	8-9S-28E
•				14. PER	MIT NO.		D	ATE IS	SUED		12. COUNT		13. STATE
											Chav		NM
15. DATE SPUDDED	16. DATE T.	D. REACHED	17. DAT	E COMPL. ()	Ready to	prod.)	18.	ELEVA	TIONS (D	F, EEB, P	T, GE, ETC.		. ELEV. CASINGHEAD
10/1/85	10/8	/85	P 8	A 10	/13/	85	<u> </u>	38	89 G				
26. TOTAL DEPTH, MD .	TVD 21.	PLUG, BACK	T.D., MD &	TVD 22.	HOW M	TIPLE CO:	MPL.,		23. INTE	LED BT	BOTABY 0-245(CABLE TOOLS
24. PRODUCING INTER	VAL(S), OF T	HIS COMPLI	TION-TOI	воттом, в	VAME (N	ID AND T	TD) •	<u> </u>		<u></u>			25. WAS DIRECTIONAL
													SUBVEY MADE
													yes 1 degre
26. TYPE ELECTRIC A					_							27.	WAS WELL CORED
CNL Dens	silog,	Induct	ion (Samma	Ray								No
28.				ING RECOP			ringe e	eet in					
CABING SIZE	WEIGHT,	LB./FT.	DEPTE SI			LE SIZE				ENTING			- AMOUNT PULLED
8 5/8''	23#		527		1	戈''		260	sx	<u>C1 C</u>	cmt v	7/27/	CaCl2
	_											·	_
	_												
			nnoone				!		30.		7777777		
29.			RECORD			SCREEN	. (252)				CUBING R		
5122	TOP (MD)	ВОТТО	м (мр)	SACES CE	MERIT	BCRLLA		<u>'</u> -	SIZE		DEPTH SET	(MD)	PACKER SET (MD)
31. PERFORATION REC	COED (Interva	i, size ana	number)			32.							UEEZE, ETC.
						DEPTE	INTE	RVAL	(MD)	_ A M	OUNT AND	KIND OF	MATERIAL USED
													· · · · · · · · · · · · · · · · · · ·
					DDC)							
33.* DATE FIRST PRODUCT	108 1 7	PRODUCTION	METHOD (Flowing, pa		DUCTION		nd tv	e of nun	(g)	1 W	LL STAT	CB (Producing or
			`	2, •		- -				/		ehut-in)	P & A

DATE OF TEST BOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL-BBL. GAS--MCF. WATER-BBL. GAS-OIL BATIO CALCULATED 24-HOUR BATE FLOW. TUBING PRESS. GAS-MCF. WATER-BEL CASING PRESSURE OIL-BBL. OIL GRAVITY-API (CORR.) 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS

SIGNED

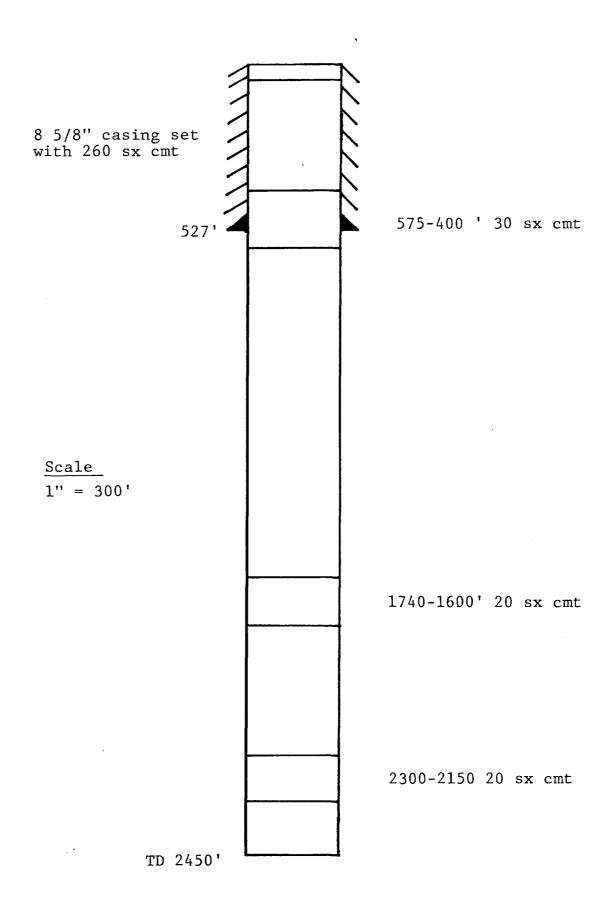
CNL Densilog, Induction Gamma Ray
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

*(See Instructions and Spaces for Additional Data on Reverse Side)

TITLE Drilling Secretary

DATE 10/14/85

AGUA NEGRA #2 Plugging Schematic



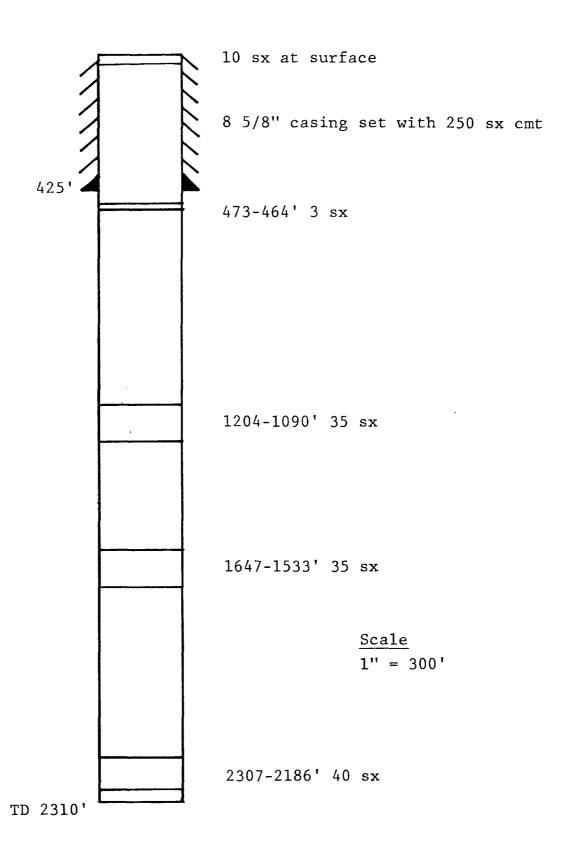
Form A	pproved	
Budget	Bureau No	40-R1424

Det. 1973	UNITED STA PARTMENT OF TH		5. LEASE NM 144	479	
DEF	GEOLOGICAL S			N, ALLOTTEE OR TRIBI	ENAME
SUNDRY NO	OTICES AND R	EPORTS ON WEL		REEMENT NAME	
reservoir. Use Form 9-3	31-C for such proposals.	o deepen or plug back to a (8. FARM OF Agua 1	r LEASE NAME Negra	
1. oil ga	other		9. WELL NO 2		
2. NAME OF OPE Cibola End 3. ADDRESS OF	ergy Corpora	tion		R WILDCAT NAME	
P. O. Box	1668, Albug	uerque, NM 87 ATION CLEARLY. See sp		, R., M., OR BLK. AND	SURVEY OF
below.) AT SURFACE: AT TOP PROD	2310 FNL & INTERVAL:		Sec	18-95-28E OR PARISH 13. STA S NM	TE
AT TOTAL DEP		DICATE NATURE OF N	OTICE.		
REPORT, OR C	OTHER DATA			IONS (SHOW DF, KDB	, AND WD)
REQUEST FOR API TEST WATER SHU' FRACTURE TREAT SHOOT OR ACIDIZ REPAIR WELL PULL OR ALTER C MULTIPLE COMPLE	T-OFF	SUBSEQUENT REPORT	OF: (NOTE: Repo	ort results of multiple comp ige on Form 9–330.)	- oletion or zone
CHANGE ZONES ABANDON* (other)		XX 		•	•
including estin	nated date of starting	TED OPERATIONS (Clear any proposed work. If or all markers and zones	well is directionally dril	lled, give subsurface to	inent dates cations and
10/13/85	P & A well	as follows:		2	-
	1st plug 23 2nd plug 17 3rd plug 57	300-2150', 20 740-1600', 20 75-400', 30 sx 0' to surface	SX		÷
		arker will be E and leveled			. be
	<u>-</u>				- •
		e		Set @	Ft.
1 /	y that the foregoing is	TITLE Drilli	ng Secretary	10/14/85	
	<i>U</i>	(This space for Federal o			
APPROVED BY	PROVAL IF ANY-	TITLE	DATE	-	

Form 9-330 (Rev. 5-68)		GE GE	G. M	STA	ΓES	SUB	SIT I	N DUPLICA.	-			pproved. Bureau No. 42-R355,5
	IDE F	NET IN	HN)T (3)			TERIO	R	(Sec of)	ns on			TON AND BERIAL NO
	128	GE	OLOGIĆ	1	RVEY			ieverse	side /	NM-1861		
	1	ATVIE	R RECON	4bi cri	OND	EDODI		ID LOG	*			TIES OR TRIBE NAME
WELL CO	MPLEI			」 ──		EPORT		TO LOO				
18. TYPE OF WELL	الم أثا	DIST. 6 N	WELL CAR	p :	RY X	Other				7. UNIT AGR	EEMEN	I NAME
L TYPE OF COMP	WORK	beep.		PIFF	vr. 🗌	015 D.	1	& Aban	don	S. FARM OR	LEASE	NAME
WELL	OVER L	ALEN NE	Wester] res	V K.	Other	11125	a Avan		Aciete	Ne	gra
Cibola Er		Corpo	ration							9. WELL NO.		<u> </u>
3. ADDRESS OF OPER	MOTAL						0 1	0.0		3		
P.O. BOX	1668	, Albu	querque	e, Net	w Mex	LCO &	871	U3		Wildca		L, OR WILDCAT
		L & 33				, ======		•		11. SEC., T.,		OH BLOCK AND SURVEY
At top prod. into			0 122							OR AREA		
	•								1	Sec. 1	.3-9	S-27E
At total depth				1 14. PE	RMIT NO.	_ 	DATE	ISSUED		12. COUNTY	OB	13. STATE
							l			Chaves	;	NM
15. DATE SPUDDED	16. DAT	E T.D. REACI	HED 17. DATE	COMPL.	(Ready to	prod.) 1	8. EL	EVATIONS (DF,	RKB, R			ELEV. CASINGHEAD
6/29/83		13/83			/27/8			3874.8			<u> </u>	
20. TOTAL DEPTR, MD	A TVD		CK T.D., MD 4	TVD 22	HOW M.	TIPLE COMP	L.,	23. INTERV		ROTARY TOO	LS	0-2310
2310 24. PRODUCING INTER	VAL(S), (231		, BOTTOM,	NAME (M	ID AND TVD)*	<u> </u>	<u> </u>		2	. WAS DIRECTIONAL
											1	SURVEY MADE
										- 		
CNLFDC,			Log							l	21. h	AS WELL CORED
28.	Tiruc	ICCIOII		NG RECO	ORD (Rep	ort all strin	gs set	in well)		-		
CABING SIZE	WEIG	HT, LB./FT.	DEPTH SE	T (MD)	HO	LE SIZE			NTING I	RECORD		AMOUNT PULLED
8 5/8"	_	23#	42.	5'	-)''	2	50 sx C	Clas	s C w/2	2% C	aCl
	_		_		-		_ -			· · ·		
	_				-		-					
29.	_'	LIN	ER RECORD		·			30.	Т	UBING RECO	ORD	
SIZE	TOP ()	(D) BO	TTOM (MD)	BACKS C	EMENT*	SCREEN (MD)	BIZE	_r	EPTH SET (M	(D)	PACKER SET (MD)
								-	-	<u> </u>		
31. PERFORATION BEG	COED (Int	erval, size a	nd number)	1		32.		CID, SHOT, 1	FRACTI	URE, CEMEN	T SQU	EEZE, ETC.
						DEPTH I	NTERV	AL (MD)	AMO	DUNT AND KIN	D OF	KATERIAL USED
												.:
												• •
						ļ				· · · · · · · ·		
33.*					PRO	DUCTION						
DATE FIRST PRODUCT	ION	PRODUCT	ON METHOD (Flowing, g	as lift, p	umping—siz	e and	type of pump)		STATU: t-in)	8 (Producing or
DATE OF TEST	1 HOURS	TESTED	CHOKE BIZE	PROD	'N. FOR	OIL—BBL		GAS-MCF		WATER-BBI	. 1	GAS-OIL RATIO
				TEST	PERIOD	1		1			- 1	
FLOW, TUBING PRESS.	CASING	PRESSURE	CALCULATED 24-HOUR RAT	OIL-	-BBL.	CAS	— ж ст	. , ,	TATER—	BBL.	OIL G	RAVITY-API (CORE.)
34. DISPOSITION OF G	AS (Sold	, used for ju	el, vented, etc.)		· A(as P	TED FOR	: 647	FEST WITNES	SSED B	Y
25 1187 07 400 200	VENER					A	744	IATLA.	71			
35. LIST OF ATTACE		Induc	tion To	σ		, ,	NC	1A T (18)	53			-
36. I hereby certify	that the	foregoing i	tion Lo	nformatic							есотав	
	Vara	c Ach	4 /		D	rillir	ROS	WELL NEW W ecreta:	EXICO		. 10	/28/83
BIGNED	ملااتمع	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1	T	TTLE D	<u> </u>	<u></u>		1	DATI	<u> </u>	, = 0, 00

ACIETE NEGRA #3

Plugging Schematic

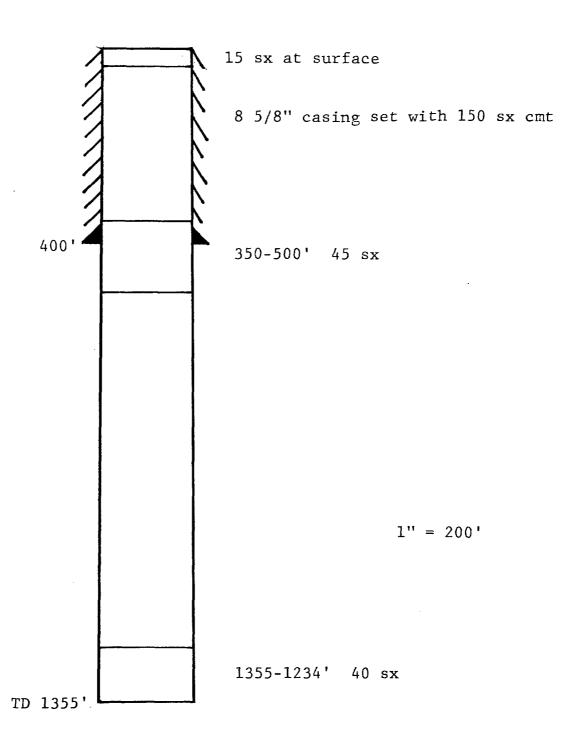


UNITED STATES

UNITED STATES	5. LEASE
DEPARTMENT OF THE INTERIOR	NM-18611
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME
1. oil gas	Aciete Negra
well well other	9. WELL NO.
2. NAME OF OPERATOR	3
Cibola Energy Corporation 3. ADDRESS OF OPERATOR	Wildcat Wildcat
P.O. Box 1668, Albuquerque, NM 87103	
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA Sec. 13-9S-27E
below.) AT SURFACE: 990 FSL & 330 FEL	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL:	Chaves NM
AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	-
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 3874.8
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	T LAND 4
TEST WATER SHUT-OFF	OF LAND MAN RECEIVED
SHOOT OR ACIDIZE	/& KELEIVEN
REPAIR WELL	(NOTE: Report results of routiple completion or zone change on Form 9-330.)
PULL OR ALTER CASING MULTIPLE COMPLETE MULTIPLE MULTIP	NOV10 1983
CHANGE ZONES	10110 1983
ABANDON* □ 🖾	
(other) Plug & Abandon	OSL B N. M.
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly stational including estimated date of starting any proposed work. If well is measured and true vertical depths for all markers and zones pertine	ate all pertinent details, and give pertinent dates
10/27/83	
We circulated the hole with f/w g	ell and plugged as follows:
- 1st plug 230/ 40 sacks cmt	
1st plug 2307' 40 sacks cmt 2nd plug 1647' 35 sacks cmt 37 3rd plug 1204' 35 sacks cmt 4th plug 473' 3 sacks cmt 5th plug, 10 sacks cement at surf	
4th plug 473' 3 sacks cmt ~6'	사는 바이 밤이 하루 사이를 하고 있다.
5th plug. 10 sacks cement at surf	ace with dry hole marker.
Location will be cleaned off and	revered for inspection.
Subsurface Safety Valve: Manu. and Type	Set @Ft.
18. I hereby certify that the foregoing is true and correct	· · · · · · · · · · · · · · · · · · ·
SIGNED Karen With TITLE Drilling	Secretary 10/28/83
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	office use)
APPROVED BY Keler W. Chetteritle	DATE
CONDITIONS OF APPROVAL, IF ANY:	
MAY 1 8 1984	
- 100 ·	보통하는 그 사람이 되었다.

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. Address of Cherator								10. Fi	eld and Po	ol, or Wildcat
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		•			J				P & A	
Cale of Test	Hours Tested	Choke Size	Prod'n. For Test Period		Dil ~ Bbl.		Gas — MCF	Water — Bbi	l. Gas	-Oil Ratio
Flow Tubing Press.	Cosing Pressure	Calculated 24 How Hate	- ОП – Вы.		Gas -	MCF	Water —	Bbl.	Oll Grov	Ity - API (Corr.)
34. Disposition of Gas (Sold, used for fuel,	vented, etc.)	1					Test Witnes	sed By	
								<u></u>		
25. List of Attachments Log										
36. I hereby certify that	the information sh	own on both side	s of this form	is tru	e and comple	ele to	the best of my kn	owledge and	belief.	
. //	,									
SIGNED LL	nita C	legel			Drill	ing	Secretary	DATE	07-2	7-82

SARDINE CAN #1
Plugging Schematic



STATE OF NEW MEXICO ENERGY MO MINERALS DEPARTMENT O ST MINUTION

PILE

OIL CONSERVATION DIVISION P.O. BOX 2088 SANTA FE, NEW MEXICO 87501

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lor.	(-10)
Revis	ec 19-1-1

V.S.O.S.		So. Indicate Type of Lease
LAND DIFICE		\$101e Fee XX
OFFRATOR		5, State OII & Gas Least No.
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SUNDRY NOTICES AND RE 100 NOTICES AND RELIGIOUS OF THE STATE OF THE ST	FURIDUN WELLD LPIN ON PLUG BACK TC & DIFFERENT RESERVOIR. C-101) FOR SUCH PROPOSALS.)	
1.		7, Unit Agreen ent Nome
OIL X WELL OTHER-		
2. Name of Operator	·	6. Farm of Lease Name
Cibola Energy Corporation		Sardine Can
P.O. Box 1668, Albuquerque, New Mexico	0 07102	9. Well No.
4. Location of hell	3 0/103	10. Field and Poor, or Wilaco:
UNIT LETTER J 1980 FEET FROM THE	South 1980	
UNIT LETTER FEET FACM THE	DOUGETT LINE AND	
THE FAST LINE, SECTION 18 TOWNS	SHIP 9S RANGE 28E NIAPH	
	(Show whether DF, RT, GR, etc.)	12. County
	88.9 Gr.	Chaves ()
•	Indicate Nature of Notice, Report or Ot	her Data
NOTICE OF INTENTION TO:	SUBSEQUEN:	T REPORT OF:
	ABANDON REMEDIAL WORK	
PLUG AND TEMPONARILY ABANDON	ABANDON REMEDIAL WORK COMMENCE DRILLING OPNS.	ALTERING CASING PLUG AND ANAHOCAMENT XX
PULL DA ALTER CASING CHANCE PI		ALOR AND ARABOLDERY XX
	OTHER	
CIMEN		
17. Describe Proposed or Completed Operations (Clearly state al.	l pertinent details, and give pertinent dates, including	e estimated date of starting any propose
work) SEE RULE 1103.		training any propose.
•		·
07-24-82 Plugged well as follows:		
1 -t -lan 40 andra Class 11011 Comment	t with 2% CoCl at 1255! to	7.0041
lst plug, 40 sacks Class "C" Cement 2nd plug, 45 sacks Class "C" Cement	with 2% CaCl at 1333 to cover with 2% CaCl at 500' to cover w	penrose at 1234'
casing, taggged at 350'.	with 2% and at 500 to cover i	ates and surface
3rd plug, 15 sacks Class "C" Cement	at surface with dry hole marker	•
The location will be cleaned of the	eash and levelled.	
-		
•	<i>.</i> .	
•		
·		
18. I hereby certify that the information above is true and complet	le to the best of my knowledge and belief.	
with Ciril	Drilling Constant	07 07 00
BIGHED (Wille Congres	Drilling Secretary	DATE 07-27-82
APPARITURE BY	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANYS		•

OPERAT(

5 - 5 to -1

Plug Record

urface left open or BIM's use as ater well

5 sacks Class C ement, 576-448'

<u>000'</u> 5 sacks Class C ement, 1216-1087'

35 sacks Class C Cement, 1792-1663'

2000'

35 sacks Class C Lement pumped 2625' Lagged at 2496'

3000

50 sacks Class C Lement, pumped in at 3584', tagged at 3584', 10-16-82

Casing and Perf Record

Circulate cement through 1" tubing 01-05-82

3 perfs at 270' 200 sacks Class C Cement, failed to circulate 01-04-82.

2575' 8 5/8" 24-28#, 1400 sacks Halliburton Lite 200 sacks Class C Cement with 2% CaCl, circulated 2-13-82

7 5/8" Open Hole

810' of 4 1/2" casing dropped, 10-14-82 Tagged at 3584' collar up

50001

20 sacks Class C Cement, pumped 5300' and tagged at 5000'

15 sacks Class C Cement, 5970-5800'

<u>6000'</u>

7000' 35 sacks Class C Cement, 7400-6900'

15 sacks Class C Cement, 7680-7500'

8000' 15 sacks Class C Cement, 8140-8000' 4 1/2" casing cut at 4760', 10-14-82

Perfs: 6646-50', 54-58', 66-72', 76-84', 86-90', 94-96', 6700-12', 38-44', 46-56', 82-86', 88-96', 06-19-82.

Acidized with 13,000 gallons 28%, 6-21-82 Maximum pressure 4000#, average pressure 3400#, final pressure 3000#, ISIP 1780#, 15 minutes 1700# very slight fluid recovery, no hydrocarbon show

Perfs: 7348-54', 2 shots per foot, 6-03-82
Acidized with 1200 gallons 7 1/2% HCL, 6-04-82.
Rate 2.75 BPM, maximum pressure 5000#, average 4000#, final 4400#, ISIP 4400#, 15 minutes 2600#.
Short flare after swab runs, but swabbed 100 barrels per day, water for 5 days.

Perfs: 8104-8114, 4-23-82 Acidized with 2000 gallons 7 1/2% and 1000 SCF N2 4-26-82. Maximum 5500#, final 4000#, average 3900#, ISIP 3200#, 15 minutes 2950#.

Acidized with 5000 gallons 7 1/2% and CO2, 5-06-82 Maximum 5600#, average 5200#, final 5500#, ISIP 2500#, 15 minutes 2200#.

Swabbed 270 barrels water and no Hydrocarbon shows.

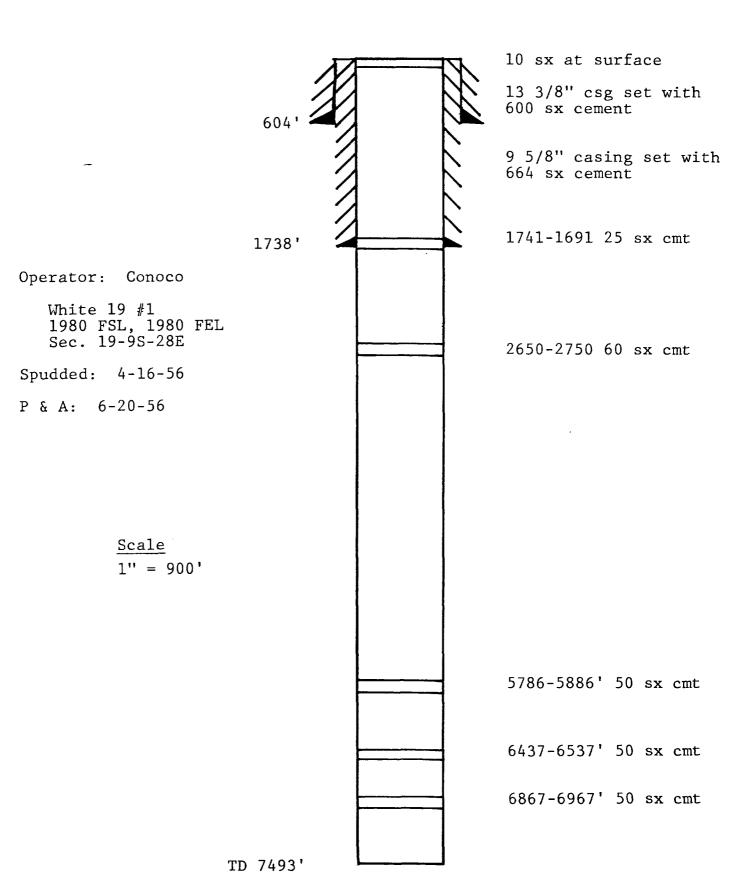
8183' 4 1/2" casing, 500 sacks Halliburton Lite 470 sacks Class H with 6 lb. of salt per sack. PBTD 8140', 3-13-82.

Budget Bureau No. 42-R355.5.

other in-

UPTILD STATES

WHITE 19 #1 Plugging Schematic



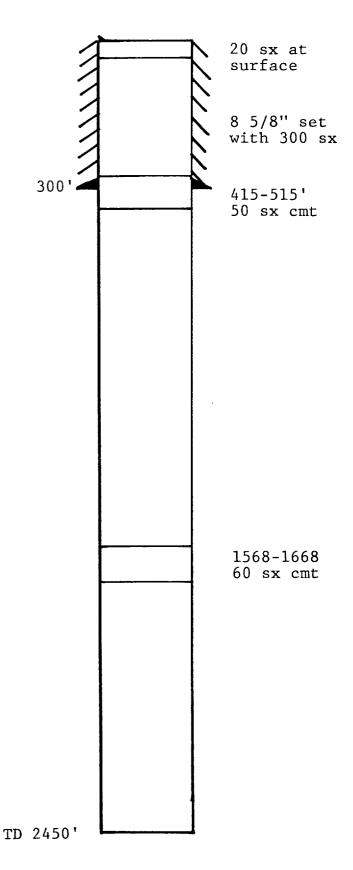
PALMA MESA #1 Plugging Schematic

Operator: Read & Stevens

Palma Mesa #1 1980 FNL & 660 FWL Sec. 6-9S-28E

Spudded 11-24-83 P & A 11-29-83

 $\frac{\text{Scale}}{1" = 300"}$



Graham State Com #1 1980 FNL & 1980 FEL Sec. 2-9S-27E

Operator: Elk Oil Spudded 3-22-82 Completed 12-6-82

TD 6620'.

Casing 8 5/8" set at 1390' with 1400 sx cmt 4 1/2" set at 2400' with 400 sx cmt

Perforated 2147-68 Acidized with 2000 gal acid

Well was plugged and abandoned. No plugging data was available.



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WATER ANALYSIS REPORT

Company: CIBOLA ENERGY CORP.

Sampling Date: 09/06/84 Analysis Date: 09/28/84

Sample ID: F13214

Sample Source

Lease: **C**X. PLAINS

Well: #6 Sample Pt: Submitted by: HOLLINGER, S.B. Sampled by: S.B. HOLLINGER

Chem. Treatment:

Sample Condition: SLIGHT TURBIDITY Calls BARITE

ANALYTICAL RESULTS

pH at the time of sampling: 5.45

pH at the time of analysis: 7.00 Density: 1.135

Hydrogen Sulfide (H2S):

TDS: Calculated 204814.2 mg/L

CONSTITUENT		mg/L	meq/L	method	comments
ANIONS					
*Bicarbonate Boron	HCO3- B(OH)4-	383.0 99.1	6.28 1.26	FIA ICP	
*Carbonate	CO3	.0	.00	N.A.	
*Chloride	Cl-	125000.0	3525.79	FIA	
Phosphate	PO4	17.0	.54	ICP	
*Sulfate	SO4	1770.0	36.85	FIA	
	SUM OF	ANIONS=	3570.72	1 241	
CATIONS					
	Al÷÷+	7.4	.83	TOD	
	Ba++	14.1	.21	ICP ICP	
	Ca++	2253.0	112.43	ICP	
	Cr+++	0.0	0.00	ICP	DT 0 000
	Cu++	0.0	0.00	ICP	DL= 2.020
	Fe++	0.0	0.00	ICP	DL= 2.020
	Pb++	0.0	0.00	ICP	DL= 2.020
	Li+	0.0	0.00	N.A.	DL=10.100
	Mg++	833.0	68.55	ICP	
_	Mn++	0.0	0.00	ICP	DT - 3 03 0
	Ni++	5.4	.19	ICP	DL= 1.010
Potassium	K+	658.0	16.83	ICP	
Silica	SiO2	0.0	0.00	ICP	DT - 2 000
_ •	Na+	73620.0	3202.26	ICP	DL= 2.020
	Sr i+	154.0	3.52	ICP	
	V++	0.0	0.00	N.A.	
	SUM OF	CATIONS=	3404.80	14.27.	

Ratio of ANIONS: CATIONS

1.05



SATURATION INDEX TABLE

Sample ID: F13214

pH (at 25.0 deg C): 7.00

Temperature

Scale Component

deg F	deg C	CaCO3 (Calcite)	CaSO4 (Anhydrite)	CaSO4*2H20 (Gypsum)	SrSO4 (Celestite)	BaSO4 (Barite)
32.00	.00	.756	-1.035	320	266	2.330
68.00	20.00	.827	828	438	335	1.945
	25.00	846	<u>- 780</u>	458	- 343	1.853
104.00	40.00	.902	640	- 499	.350	1.569
140.00	60.00	.987	458	519	328	1.259
176.00	80.00	1.094	272	513	283	.950
212.00	100.00	1.228	076	491	224	.660

S.I.=SATURATION INDEX

S.I.=lcg(Product of activities of component ions/Ksp)

S.I. less than 0 The water is undersaturated and indicates a non-scaling situation.
S.I. near or equal to 0 The water is saturated and scale

formation is likely.

S.I. greater than 0 The water is supersaturated and favors scale formation.

POSSIBLE SCALE FORMATION

Temperature

Scale Component (mg/1000 g H20)

deg F	deg C	CaCO3 (Calcite)	CaSO4 (Anhydrite)	CaSO4*2H20 (Gypsum)	SrSO4 (Celestite)	BaSO4 (Barite)
32.00	.00	64.	0.	0.	0.	26.
68.00	20.00	82.	0.	0.	0.	26.
77.00	25.00	87.	0.	0.	0.	26.
104.00	40.00	106.	0.	0.	0.	26.
140.00	60.00	137.	0.	0.	0.	25.
176.00	80.00	172.	0.	0.	0.	24.
212.00	100.00	208.	0.	0.	0.	21.

The POSSIBLE SCALE FORMATION predicts the maximum amount of any one scale component that could precipitate from the water as analyzed. As precipitation progresses, these predictions become less accurate.

To estimate the POSSIBLE SCALE FORMATION in 1bs/1000 barrels (US 42 gal) use the following:

APPROXIMATE lbs/1000 barrels = $(mg/1000g H20) \times 0.35$





******NOTES ON WATER ANALYSIS REPORT*****

****KEY****

DL=DETECTION LIMIT (mg/L)

FIA=FLOW INJECTION ANALYSIS

FLD=FIELD DATA

ICP=INDUCTIVELY COUPLED PLASMA EMISSION

meg/L=MILLIEQUIVALENTS PER LITER

mg/L=MILLIGRAMS PER LITER

N.A.=NOT ANALYZED

S.I.=SATURATION INDEX=log(Activity Product/Ksp)

TDS=TOTAL DISSOLVED SOLIDS

#=INDICATES THE CONCENTRATION OF THE CONSTITUENT HAS

SIGNIFICANTLY CHANGED SINCE THE LAST ANALYSIS

*=USED IN SPECIES DISTRIBUTION CALCULATIONS

(SEE SECTION ON COMPUTER CALCULATIONS)

The following guidelines are useful when interpreting the results in the WATER ANALYSIS REPORT.

- 1) The pH is an indication of relative acidity or basicity of the water sample.
- 2) The Ratio of ANIONS:CATIONS determines if the balance between anions and cations is in agreement and consequently whether the results are reliable. If the ratio is significantly greater than or less than 1.0 the results should be interpreted with caution.
- 3) The COMMENTS column is reserved to indicate if a constituent has significantly changed since the last analysis (#), and to denote the analytical detection limits (DL) when the constituent can not be detected.
- 4) The SATURATION INDEX (S.I.) predicts scaling conditions in the analyzed water. The S.I. is an indicator and may not accurately represent some site water conditions. In some instances a S.I. near 0 could indicate that scaling has already occurred.

******NOTES ON COMPUTER CALCULATIONS*****

A computer assisted model, WASEQ, has been utilized to calculate the equilibrium distribution of chemical species (single ions and ion pairs) in an aqueous system. The model is based on thermodynamic principles and calculations that incorporate activity coefficients, temperature corrected equilibrium constants and conservation of mass equations.

All of the ions listed in the constituent data are utilized for determining ionic strength, however, only the ions identified with a "*" are used in the ion pair distribution computations. The Saturation Index (S.I.) is a measure of the state of saturation and is determined from the free ions remaining after ion pairing.



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WATER ANALYSIS REPORT

Company: CIBOLA ENERGY CORP.

Sampling Date: 09/06/84 Analysis Date: 09/28/84

Sample ID: F13215

Sample Source

Lease: PLAINS 29

Well: #9 Sample Pt:

Submitted by: HOLLINGER, S.B. Sampled by: S.B. HOLLINGER

Chem. Treatment:

Sample Condition: BLACK PPT

ANALYTICAL RESULTS

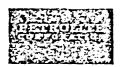
ca cos, sante pH at the time of sampling: 5.75 pH at the time of analysis: 6.90 Density: 1.140

Hydrogen Sulfide (H2S):

TDS: Calculated 211900.5 mg/L

CONSTITUENT		mg/L	meg/L	method	comments
RNOINA					
*Bicarbonate	HCO3-	439.0	7.19	FIA	
Boron	B(OH)4-	102.8	1.30	ICP	
*Carbonate	co3- -	.0	.00	N.A.	
*Chloride	Cl-	129000.0	3638.62	FIA	
Phosphate	P04	12.4	.39	ICP	
*Sulfate	SO4	2890.0	60.17	FIA	
	SUM O	F ANIONS=	3707.68		
CATIONS					
Aluminum	Al:++	13.7	1.52	ICP	
*Barium	Ba++	13.9	.20	ICP	
*Calcium	Ca++	2777.0	138.57	ICP	
Chromium	Cr+++	0.0	0.00	ICP	DL = 2.020
Copper	Cu++	0.0	0.00	ICP	DL= 2.020
*Iron	Fe ll	0.0	0.00	ICP	DL= 2.020
Lead	Pb++	0.0	0.00	ICP	DL=10.100
Lithium	Li+	0.0	0.00	N.A.	
*Magnesium	Mg :+	883.0	72.66	ICP	
Manganese	Mn÷÷	0.0	0.00	ICP	DL= 1.010
Nickel	Ni++	4.2	.14	ICP	
Potassium	K+	698.0	17.85	ICP	
Silica	SiO2	0.0	0.00	ICP	DL= 2.020
*Sodium	Na+	75000.0	3262.29	ICP	
*Strontium	Sr++	66.6	1.52	ICP	
Vanadium	V++	0.0	0.00	N.A.	
	SUM O	F CATIONS=	3494.76		

Ratio of ANIONS: CATIONS 1.06



SATURATION INDEX TABLE

Sample ID: F13215

pH (at 25.0 deg C): 6.90

Temperature

Scale Component

deg F	deg C	CaCO3 (Calcite)	CaSO4 (Anhydrite)	CaSO4*2H20 (Gypsum)	SrSO4 (Celestite)	BaSO4 (Barite)
32.00 68.00	.00	.796 .886	727 520	015 134	435 504	2.519 2.134
		TO THE PROPERTY OF THE PARTY OF	24 - 472 an	154	25 27 25	2.043
104.00	40.00	.981	 332	194	518	1.779
140.00	60.00	1.083	150	214	497	1.449
176.00	80.00	1.201	.037	208	451	1.140
212.00	100.00	1.341	.233	186	392	.851

S.I.=SATURATION INDEX

S.I.=log(Product of activities of component ions/Ksp)

S.I. less than 0 The water is undersaturated and indicates a non-scaling situation.

S.I. near or equal to 0 The water is saturated and scale formation is likely.

S.I. greater than 0 The water is supersaturated and favors scale formation.

POSSIBLE SCALE FORMATION

Temperature

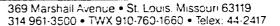
Scale Component (mg/1000 g H20)

deg F	deg C	CaCO3 (Calcite)	CaSO4 (Anhydrite)	CaSO4*2H20 (Gypsum)	SrSO4 (Celestite)	BaSO4 (Barite)
32.00	.00	90.	0.	0.	0.	26.
68.00	20.00	113.	0.	0.	0.	26.
77.00	25.00	119.	0.	0.	0.	26.
104.00	40.00	142.	0.	0.	0.	26.
140.00	60.00	178.	0.	0.	0.	25.
176.00	80.00	216.	264.	0.	0.	24.
212.00	100.00	255.	1468.	0.	0.	23.

The POSSIBLE SCALE FORMATION predicts the maximum amount of any one scale component that could precipitate from the water as analyzed. As precipitation progresses, these predictions become less accurate.

To estimate the POSSIBLE SCALE FORMATION in lbs/1000 barrels (US 42 gal) use the following:

APPROXIMATE lbs/1000 barrels = $(mg/1000g H20) \times 0.35$





******NOTES ON WATER ANALYSIS REPORT*****

****KEY****

DL=DETECTION LIMIT (mg/L)
FIA=FLOW INJECTION ANALYSIS
FLD=FIELD DATA
ICP=INDUCTIVELY COUPLED PLASMA EMISSION
meq/L=MILLIEQUIVALENTS PER LITER
mg/L=MILLICRAMS PER LITER
N.A.=NOT ANALYZED
S.I.=SATURATION INDEX=log(Activity Product/Ksp)
TDS=TOTAL DISSOLVED SOLIDS
#=INDICATES THE CONCENTRATION OF THE CONSTITUENT HAS
SIGNIFICANTLY CHANGED SINCE THE LAST ANALYSIS
*=USED IN SPECIES DISTRIBUTION CALCULATIONS
(SEE SECTION ON COMPUTER CALCULATIONS)

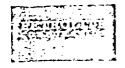
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- 1) The pH is an indication of relative acidity or basicity of the water sample.
- 2) The Ratio of ANIONS:CATIONS determines if the balance between anions and cations is in agreement and consequently whether the results are reliable. If the ratio is significantly greater than or less than 1.0 the results should be interpreted with caution.
- 3) The COMMENTS column is reserved to indicate if a constituent has significantly changed since the last analysis (#), and to denote the analytical detection limits (DL) when the constituent can not be detected.
- 4) The SATURATION INDEX (S.I.) predicts scaling conditions in the analyzed water. The S.I. is an indicator and may not accurately represent some site water conditions. In some instances a S.I. near 0 could indicate that scaling has already occurred.

*******NOTES ON COMPUTER CALCULATIONS*****

A computer assisted model, WASEQ, has been utilized to calculate the equilibrium distribution of chemical species (single ions and ion pairs) in an aqueous system. The model is based on thermodynamic principles and calculations that incorporate activity coefficients, temperature corrected equilibrium constants and conservation of mass equations.

All of the ions listed in the constituent data are utilized for determining ionic strength, however, only the ions identified with a "*" are used in the ion pair distribution computations. The Saturation Index (S.I.) is a measure of the state of saturation and is determined from the free ions remaining after ion pairing.



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WATER ANALYSIS REPORT

Company: CIBOLA ENERGY CORP.

Sampling Date: 09/06/84 Analysis Date: 09/28/84

Sample ID: F13213

Sample Source

Lease: J.P. WHITE D

Well: #5
Sample Pt:

Submitted by: HOLLINGER, S.B. Sampled by: S.B. HOLLINGER

Chem. Treatment:

Sample Condition: SLIGHT TURBIDITY

ANALYTICAL RESULTS

pH at the time of sampling: 5.25 pH at the time of analysis: 6.90

pH at the time of analysis: 6.90 Density: 1.139

Density: Hvdrogen Sulfide (H2S):

TDS: Calculated 212937.3 mg/L

Ca Co 3

120. 0010-1			5/ —		
CONSTITUENT		mg/L	meq/L	method	comments
ANIONS					
*Bicarbonate	HC03-	343.0	5.62	FIA	
Boron	B(OH)4-	116.6	1.48	ICP	
*Carbonate	CO3	.0	.00	N.A.	
*Chloride	Cl-	130000.0	3666.83	FIA	
Phosphate	P04	25.9	.82	ICP	
*Sulfate	SO4	2780.0	57.88	FIA	
	SUM OF	ANIONS=	3732.63		
CATIONS					
Aluminum	$A \rightarrow +++$	13.2	1.47	ICP	
*Barium	Ba++	14.0	.20	ICP	
*Calcium	Ca++	2865.0	142.96	ICP	
Chromium	Cr+++	0.0	0.00	ICP	DL= 2.020
Copper	cu++	0.0	0.00	ICP	DL= 2.020
*Iron	Fe + +	0.0	0.00	ICP	DL= 2.020
Lead	Pb++	0.0	0.00	ICP	DL=10.100
Lithium	Li+	0.0	0.00	N.A.	
*Magnesium	Mg :+	965.0	79.41	ICP	
Manganese	Mn++	2.2	.08	ICP	
Nickel	Ni ++	3.8	.13	ICP	
Potassium	K+	662.0	16.93	ICP	
Silica	SiO2	0.0	0.00	ICP	DL= 2.020
*Sodium	Na+	75090.0	3266.20	ICP	
*Strontium	Sr ++	56.5	1.29	ICP	
Vanadium	V ÷÷	0.0	0.00	N.A.	
	SUM OF	CATIONS=	3508.68		

Ratio of ANIONS: CATIONS 1.06



SATURATION INDEX TABLE

Sample ID: F13213

pH (at 25.0 deg C): 6.90

Temperature

Scale Component

deg F	deg C	CaCO3 (Calcite)	CaSO4 (Anhydrite)	CaSO4*2H20 (Gypsum)	SrSO4 (Celestite)	BaSO4 (Barite)
32.00 68.00	.00	.709 .798	727 519	015 134	525 594	2.504 2.119
104:00	9:00 0:00	-821 -821 -892		154	602	2.027 1.753
140.00	60.00	.993	149	214	 587	1.433
176.00	80.00	1.110	.038	207	541	1.124
212.00	100.00	1.249	.235	185	482	.835

S.I.=SATURATION INDEX

S.I.=log(Product of activities of component ions/Ksp)

S.I. less than 0 The water is undersaturated and indicates a non-scaling situation.
S.I. near or equal to 0 The water is saturated and scale

formation is likely.

S.I. greater than 0 The water is supersaturated and favors scale formation.

POSSIBLE SCALE FORMATION

Temperature

Scale Component (mg/1000 g H20)

deg F	deg C	CaCO3 (Calcite)	CaSO4 (Anhydrite)	CaSO4*2H20 (Gypsum)	SrSO4 (Celestite)	BaSO4 (Barite)
32.00	.00	60.	0.	0.	0.	26.
68.00	20.00	77.	0.	0.	0.	26.
77.00	25.00	82.	0.	0.	0.	26.
104.00	40.00	99.	0.	0.	0.	26.
140.00	60.00	127.	0.	0.	0.	26.
176.00	80.00	157.	270.	0.	0.	25.
212.00	100.00	189.	1450.	0.	0.	23.

The POSSIBLE SCALE FORMATION predicts the maximum amount of any one scale component that could precipitate from the water as analyzed. As precipitation progresses, these predictions become less accurate.

To estimate the POSSIBLE SCALE FORMATION in lbs/1000 barrels (US 42 gal) use the following:

APPROXIMATE lbs/1000 barrels = $(mg/1000g H20) \times 0.35$



******NOTES ON WATER ANALYSIS REPORT*****

****KEY****

DL=DETECTION LIMIT (mg/L) FIA=FLOW INJECTION ANALYSIS FLD=FIELD DATA ICP=INDUCTIVELY COUPLED PLASMA EMISSION meg/L=MILLIEOUIVALENTS PER LITER mg/L=MILLIGRAMS PER LITER N.A.=NOT ANALYZED S.I.=SATURATION INDEX=log(Activity Product/Ksp)

TDS=TOTAL DISSOLVED SOLIDS

#=INDICATES THE CONCENTRATION OF THE CONSTITUENT HAS SIGNIFICANTLY CHANGED SINCE THE LAST ANALYSIS

*=USED IN SPECIES DISTRIBUTION CALCULATIONS (SEE SECTION ON COMPUTER CALCULATIONS)

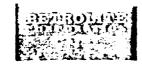
The following guidelines are useful when interpreting the results in the WATER ANALYSIS REPORT.

- 1) The pH is an indication of relative acidity or basicity of the water sample.
- 2) The Ratio of ANIONS: CATIONS determines if the balance between anions and cations is in agreement and consequently whether the results are reliable. If the ratio is significantly greater than or less than 1.0 the results should be interpreted with caution.
- 3) The COMMENTS column is reserved to indicate if a constituent has significantly changed since the last analysis (#), and to denote the analytical detection limits (DL) when the constituent can not be detected.
- 4) The SATURATION INDEX (S.I.) predicts scaling conditions in the analyzed water. The S.I. is an indicator and may not accurately represent some site water conditions. In some instances a S.I. near 0 could indicate that scaling has already occurred.

*******NOTES ON COMPUTER CALCULATIONS*****

A computer assisted mcdel, WASEQ, has been utilized to calculate the equilibrium distribution of chemical species (single ions and ion pairs) in an aqueous system. The model is based on thermodynamic principles and calculations that incorporate activity coefficients, temperature corrected equilibrium constants and conservation of mass equations.

All of the ions listed in the constituent data are utilized for determining ionic strength, however, only the ions identified with a "*" are used in the ion pair distribution computations. The Saturation Index (S.I.) is a measure of the state of saturation and is determined from the free ions remaining after ion pairing.



TRETOLITE DIVISION

369 Marshall Avanue / Saint Louis, Missouri 63119 (314) WD 1-3500/TWX 910-760-1660/Telex 44-2417

WATER ANALYSIS REPORT

OMPANY Cibola Energy Corporation	ADDRESS_	Artesia	. N.M.		7-19-84
OURCE Mabe 1	DATE SAM	PLED	12-84	ANALYSIS NO	846
Analysis		Mg/[*Meq/L	
1. pH7.0					
2. H ₂ S (Qualitative) Pos.					
3. Specific Gravity 1.140					
4. Dissolved Solids		227,216			
5. Suspended Solids		·			
6. Phenolphthalein Alkalinity (CaCO ₃)	-				
7. Methyl Orange Alkalinity (CoCO ₃)		360			
8. Bicarbonate (HCO ₃)	HCO ₃ _	439	÷61	7.2	HCO,
9. Chlorides (CI)	CI _	136,016	÷35.5	_3.803_	CI
10. Sulfates (SO ₄)	SO₄ _	3,750	÷48	_78	SO ₄
11. Calcium (Ca)	Co _	3,200	÷ 20	_160	Ca
12. Magnesium (Mg)	Mg _	875	÷12.2	_72	Mg
13. Total Hardness (CaCO ₃)	-	11,600			
14. Total Iron (Fe)	-	42			
15. Barium (Qualitative)					
16. Strontium					
*Milli equivalents per liter PROBABLE MIN	IERAL COMF	POSITION			
•	Compound	l Eau	iv. Wt.)	(Meq/L	= Mg/L
160 Co ← HCO ₃ 7.2	Ca (HCO ₃)	•	B1.04	7.2	584
72 Mg — SO ₄ 78	Ca SO ₄	-	68.07	78	5,310
	Ca Cl ₂		55.50	75	4,163
3,030	Mg (HCO ₃)		73.17		·
Saturation Values Distilled Water 20°C Ca CO ₃ 13 Mg/L	Mg SO ₄		60.19		
Ca SO ₄ • 2H ₂ O 2,090 Mg/L	Mg Cl ₂		47.62	72	3,429
Mg CO ₃ 103 Mg/L	Na HCO3		84.00		
	Na ₂ SO ₄		71.03		
	Na Cl		58.46	3,656	213,73
REMARKS P. White (2)					
REMARKS FP. White (2)%	 				
Hollinger - Knorr - M. Roberts	- File				
				ctfully submitte	

Ray Shaffner

%69 Marshaf Avenue St. Louis, Minkhor 63119

314 951-3500 TWX 910-760-1660 Tolex: 44-2417

STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO₃ Scaling Tendency

			Water Analysis No. 846
рΗ		7.00	
TO	TAL	IONIC STRENGTH	4.05
SI	at	$(80)^{0}F =$	+ 1.21
SI	at	$(120)^{0}F =$	+ 1.66
RE	MA RI	KS: <u>Severe Cal</u>	cium carbonate scaling tendencies at 80°F and 120°F
			SCALING TENDENCY CALCULATIONS
			(Skillman-McDonald-Stiff Method)
			Calcium Sulfate
.,			
X	=	0.041	
S	=	5,034	mg/1 @OF
S	=	5-043	mg/1 @ <u>110</u> OF