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REPORTS

DATE:

BOBBY LEWIS RANCH

WATER ANALYSIS
AND
CONTAMINATION STUDY

September 3, 1973

PREPARED BY JOHN W. RUNYAN GEOLOGIST

WATER ANALYSIS AND CONTAMINATION STUDY

The cause of this report was that three fresh water wells located at the Sawyer Ranch house complex became contaminated with salt water. The ranch house is located approximately five miles east of Crossroads, New Mexico, and Mr. Bobby Lewis is the new owner of the ranch.

In order to determine the cause of the contamination problem, twenty six test wells were drilled to an average depth of 190 feet (refer to maps). Samples from these test wells were analyzed for chloride (salt) content. The location of each test well was determined by the salt content of the previous test well and the locations of the nearest battery pits in relation to the ranch house.

Test procedure was to drill down to the top of the blue clay,
"upper water zone", take a water sample, then drill on down to the
top of the red bed formation, "lower water zone", and take another
water sample. Samples were analyzed on location, by myself, and the
analysis was made by using the standard method of titrating the sample
with silver nitrate.

The enclosed maps are contoured on 5000 ppm chlorides for both the upper and lower water zones, and the contours on these two maps are of my own interpretation.

The driller who drilled all the test wells is Mr. Sumruld of 606 West Avenue I, Lovington, New Mexico.

	LINE		HOLE
	DRILL_		DATE 8-23,24,73
-	AREA_		0-50,52,10
	FROM	то	FORMATIONS DRILLED
en .	0	32	surface & caliche
	32	55	sandrock with stringers of sand
	55_	76	sandy clay
	76	114	sand & gravel with layers of
			sandy clay
	_114	118	cemented gravel
	118	136	yellow clay
	136	160	blue shale
	160	165	sandy clay
	165	172	sand and gravel with layers
			of mandy clay
			white clay
	EXPLOSI	VES USE	red bed
	CASING S		
			
-	REMARK	s:	
•			
	SIGNED	_6	Hi Sumuld
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			NY HOLE LOG CVO-37
	LINE		HOLE
	DRILL_		DATE 8-23-73
-	AREA _	Saw;	/er
	FROM	то	FORMATIONS DRILLED
		26	caliche
	_ 26	55	sandrock
	55	74	
	74	112	sand & gravel with layers of
4			clay
	112	117	cemented gravel
	117	134	yellow clay
	134	167	blue clay & limestone
	167	178	sand & shale
	178	182	white clay
	182	200	red bed
	EXPLOSI		.0
	CASING S		
	REMARKS	3:	ne water
i			
	SIGNED	6	4. Sumuell
!	_ CVO-37 1		PRINTED IN U. S. A.

	LINE		HOLE
	DRILL_		DATE_8-28-73
7	AREA_		
ļ	FROM	то	FORMATIONS DRILLED
-	0	22	surface, sandy clay, caliche
	22	46	sand&sandstone
	46		sandy clay & sand layers
	82	148	sand & gravel
	148		cemented gravel
	153	154	yellow clay
	154	165	blue shale
	165	180	sand & gravel
	180	183	sandy clay
	183	185	red bed
	LOADED	AT	
	EXPLOSI	VES US	ED
	CASING	SET	
_		#####	
1	REMARK	s:	
			······································
	SIGNED	E,	H. Sumueld
	C VO-37		PRINTED IN U. S. A.

	DRILL_		HOLE 3
_	AREA_		DATE 8 -24- 73
	FROM	то	FORMATIONS DRILLED
e '.		34	caliche
	34	59	sandstone & sand
	5 9	74	sandy clay
	74	140	
•			of sandy clay
	140	144	yellow clay & gravel
i i	144		blue shale
	182		sand
	189		red bed
_	LOADED		
	CASING S		ED
			<u>'</u>
	0		
1	REMARKS	5 :	
ė			
			H. Sumueld

	LIME		HOLE LOG CVO.37	
	LINE DRILL_		DATE 8-27-73	•
	AREA_			
	FROM	то	FORMATIONS DRILLED	=
-	0	24	caliche	:
	24	44	sand, sandstone	-
	44	103	sandy clay & sand layers	•
	103	148	sand & gravel	•
	148	153	cemented gravel	
	153	154	yellow elay	
	154	176	blue clay & shale	I
	176	186	sand, sandy clay	!
	186	188	red bed	
				ı
	LOADED	AT.		.
	EXPLOSI		ED .	
	CASING :			, .
-	REMARK	S :		
				• ,
=				D-
		ſ	5//	. !
	SIGNED		H. Jumala	•
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ï		IINE	Citizania	HOLE LOG CV		
		DRILL		DATE 9-2		
	_	AREA_		9-2'	7-73	
ı		FROM	то	FORMATIONS DRILLED		
I	-		26			
ı		25	1	caliche		
1		56_		wandy clay, cand & gre	1	
		98	1	sandy clay		
				sand & gravel		
i			1 1	yellow clay		
				blue shele		
•				sand		
				red bed		
			ļ			
			ļ <u></u>		· ·	
		LOADED				
		EXPLOS		D		
I.		CASING	SEI	· · · · · · · · · · · · · · · · · · ·		
	-					
		REMARK	s:			
	7					
		C.c	C	H. Sumuel		
		C VO-37			D IN U. S. A.	

I	LINE HOLE
	DRILL DATE
•	AREA
1	FROM TO FORMATIONS DRILLED
i -	0 23 surface soil & caliche
	23 56 sandy clay, sandstone
	56 90 sand & sandy clay layers
	90 115 sand & gravel, sandy clay
	118 145 sand & gravel
	-145 148 yellow clay
	-148 165 blue shele
	165 183 pand
,	182 84 sandy clay
	-184 185 red bed
· ·	
	LOADED AT
	EXPLOSIVES USED
	CASING SET
•	REMARKS:
•	
•	
•	SIGNED E. H. Summeld

LIN	E	HOLE 8
		DATE 8-29-73
ARE		
FRO	ом то	FORMATIONS DRILLED
-	0 18	surface, sandy clay, caliche
1	8 43	sandstone, sandy clay
<u>4</u>	3 79	sand & sandy clay layers
7	9 148	sand & gravel with stringers
		of sandy clay
14	8 150	cemented gravel
15	0 151	yellow limestone
15	161	bluelimestone & clay
16	134	sand & sand-rock
18	4 185	red bed
LOA	DED AT	
EXP	LOSIVES US	ED
CASI	NG SET	
REM	ARKS:	
	713	
Sigi	NED E	H. Sumuld
c vo-	37 11-64	PRINTED IN U. S. A.

		HOLE LOG CVO-37
LINE_		HOLE 9
DRILL		DATE 8-29-73
AREA		
FROM	то	FORMATIONS DRILLED
0	23	sandy clay, caliche
23	40	sandy clay, sandstone
40	86	sand & sandy clay layers
86	110	sand & gravel with layers
	•	of sandy clay
110	127	red clay & gravel
127	138	
138		•
146	148	<u> </u>
148	182	blue shale
182	193	sand, sandrock
193	195	red bed
LOADE) AT	
EXPLOS	IVES US	E D
	SET	

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. e	LINE		HOLE 10
	DRILL		DATE 8-30-73
•	AREA_		
	FROM	то	FORMATIONS DRILLED
•	0	29	surface, sandy clay, caliche
	29	45	sandstone
	45	75	sandy clay
	75	145	sand & gravel with clay layers
	145	148	cemented gravel
	148	153	yellow clay & limestone
	153	174	blue lime & shale
	174	189	white sand with layers of
			clay
	189	190	red bed
		<u> </u>	A 1 TO 10 TO
	LOADED		
	EXPLOS		ED
	CASING		
•	REMARK	s:	
ن			

	LINE_		HOLE 11
	DRILL.		DATE_8-30-73
5	AREA_		
	FROM	то	FORMATIONS DRILLED
•	0	36	caliche & sandy clay
	36	45	gandstone
	45	77	sand & sandy clay
	77	148	sand & gravel with clay
			stringers
	148	154	yellow clay & lime
	154	173	blue lime & shale
l	173	188	send
	188	190	red bed
		ļ	
		ļ	
	LOADED	AT	
	EXPLOS		ED
	CASING	SET	
1			
u.	REMARK	:S:	
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•			
	SIGNED		
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		-	HOLE LOG CVQ-37
			DATE 8-31-73
	AREA_		DATE_COURT
	FROM	то	FORMATIONS DRILLED
	0	24	sand & caliche
	24	48	sand & sandstone layers
	48	153	sand, sand & gravel with
	•		stringers of clay
•	151	153	yollow clay & lime
٦	153	176	blue lime & chale
1	176	186	sand & sandstone
	186	189	sandy clay
•	189	190	red bed
	LOADED	AT	
	EXPLOSI		D
	CASING :		
	REMARK	s:	
			
	SIGNED		

<u>.</u>	r.		HOLE LOG CVO-37.
LII	NE		HOLE
DR	ILL_		DATE 8-31-73
AR	REA		
FR	ROM	то	FORMATIONS DRILLED
	0	23	surface, sandy clay, caliche
	23	52	sandstone & sandy clay
	52	78	sandy clay & sand layers
	78	152	sand & gravel with stringers
			of clay
_1	.52	154	yellow limestone
		175	blue lime & shale
1	75	192	sand
_1	92	194	red bed
LO	DADED A	\T	
	(PLOSIV		D
CA	SING SE	ET	
RE	MARKS	:	
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Si	GNED .		

*	-,	Carlo America	HOLE LOG CVO-37
	LINE_	" to of They	HOLE 14
	DRILL_		DATE 9-1-73
í	AREA_		
1	FROM	то	FORMATIONS DRILLED
	0	35	surface, caliche, sand
	35	60	sandstone & sand
	60	79	sandy clay
A T	79	149	sand & gravel with stringers
••			of sandy clay
	149	151	
ed d	151	168	blue shale
right.	168	190	sand & sandrock
ı	190	191	red bed
	 -		
	-		
_	LOADED		
	EXPLOSI		0:0
_	CASING	SET	
	REMARK	s:	
- -			
•			
	SIGNED		

	LINE		HOLE <u>15</u>
	DRILL_		DATE 9-1-73
1	AREA_		
	FROM	то	FORMATIONS DRILLED
	0	24	sand & caliche
	24	36	sandstone & sandy clay
	36	77	sand & sandy clay layers
	77	153	sand & gravel with layers of
			clay
	153	1 55	yellow limestone
	<u> </u>	170	blue lime & clay
	170	188	sand & sandstone
	188	190	red bed
		+	
		-+	
	LOADED	AT	
	EXPLOSI		D
	CASING S	BET	
		 ;: - ;	
	REMARKS	3:	
			

	LINE		HOLE 16
	DRILL_		DATE 9-10-73
7	AREA_		
	FROM	то	FORMATIONS DRILLED
	0	30	sandy clay & caliche
	30_	74	sand, sandstone, sandy clay
	74	138	sand & gravel withstringers
			of sandy clay
	<u>138</u>	143	yellow clay & lime
	143	153	blue clay & lime
	153	178	sand & sandstone with layers
			of clay
	178	180	red bed
			
			
	LOADED	AT	
	EXPLOSI		D
	CASING S	SET	
. A			
*	REMARK	s:	
	SIGNED		
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			HOLE
	DRILL.		DATE 9-10-73
7	AREA		
	FROM	ТО	FORMATIONS DRILLED
•	0	35	sandy clay, caliche, sandstone
	35	73	sand
	73	144	sand & gravel with layers of
		·	clay
	144	149	yellow clay & lime
	149	167	blue shale
	167	179	sand & sandstone
	179	180	red bed
	LOADED		
	CASING	SET USI	. 0
4			
	=		
•	REMAR	(S :	
	SIGNED		
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	LINE		HOLE 18
			DATE 9-11-73
^	AREA _		
	FROM	то	FORMATIONS DRILLED
ŧ	0	26	sandy clay & caliche
	26	T	sand & sandstone
	38		sendy clay, sand
	75		7 sand & gravel with layers
			of clay
	147	158	yellow clay
	158	176	blue clay & lime
	174	191	sand & sandstone with
		Ĺ	stringers of sandy clay
	191	192	red bed
	104050		
	EXPLOSI		rn
	CASING S		
1		-	
.	REMARK	s:	
	SIGNED		
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a.	4		HOLE LOG CVO-37
	LINE		HOLE 10 (19)
	DRILL_		DATE_9-12-73
	AREA_		Candinase - one code
1	FROM	то	FORMATIONS DRILLED
	0	36	esand, caliche, sandstone
	36	70	sand & sandy clay
	70	149	sand & gravel with layers
ı		\bigcirc	of clay
I	149	155	yellow clay & gravel, lime
		1	hlue shale
	_166	191	sand with clay stringers
	191	192	red had
		<u> </u>	
			
			<u> </u>
	LOADED		
	EXPLOSI		ED .
	CASING S		
•	REMARK	s :	
			
	SIGNED		
,	C VO-37	11-64	PRINTED IN U. S. A.

	-,		HOLE LOG CVO-37
İ			HOLE
	DRILL_		DATE 9-12-73
l	AREA_		
I	FROM	то	FORMATIONS DRILLED
	0	25	sand, caliche, sandstone
	25_	46	sandy clay, sandstone
	46	110	sand & sandy clay
	110	148	sand & gravel
!	148	157	yellow clay & lime
	_ 157	176	blue shale
	176	193	sand & sandstone with stringer
		-	of clay
	193	195	red bed
	LOADED	AT	
	EXPLOSI	VES USE	ED .
	CASING S	ET	
3. •			
	REMARK	s:	
•			
	Signific		
•	SIGNED CVO-37 1		PRINTED IN U. S. A.

•	S _a		HOLE LOG CVO-37
	LINE_		HOLE
	DRILL		DATE 9-13-73
	AREA_		
	FROM	то	FORMATIONS DRILLED
		26	sandy clay, caliche
	26	48	sand & sandstone
	48	75	sand & sandy clay
	75_	147	sand & gravel with layers
		ļ	of clay
	-147	152	yollow clay & lime
	_152	175	blue shale
	175	188	sand, sandstone, sandy clay
	_1 88	190	red hed
			
		<u> </u>	
	LOADED		
	EXPLOS		ED
	CASING	SE 1	
	REMARK	s:	
	<u></u>	· · · · · · · · · · · · · · · · · · ·	
	SIGNED		
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i			HOLE 22	
	DRILL		DATE_9-13-73	
	AREA_			
	FROM	то	FORMATIONS DRILLED	
	0	22	caliche & sandy clay	
	22	45	sand & sandstone	
	45	68	sand & sandy clay	
	68	146	sand & gravel with clay	
			layers	
	146	156	yellow clay	
	156	177	blue shale	
		192	sand & sandstone	
	192	195	red bed	
1				
	LOADED			
		VES USE	0	
	CASING S			
		·		
	REMARK	s:		
	3			
	SIGNED			
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WELL LOG

· 1/2 - 1/2	S. P. No. 2	3	AREA	m :
	COUNTY _	· · · · · · · · · · · · · · · · · · ·	STATE	
	DYN. LOAD	DED	DEPTH BOTTOM CHARGE	
	CAPS LOAD	DED	TR⊎CK No	
	DATE9	-14-73		
	FROM	то	FORMATION	
	0	23	sandy clay, caliche	
	23	50	sand &sandstone	
	50_	67	sandy clay, sand	
	67	146	sand & gravel with	
		١	clay layers	
	146	160	yellow clay & lime	
	160	182	layers of blue shale	
			end sandstone	
	182	192	sand & sandstone	
	192	199	sandy clay & sand	
	199	200	red bed	
				'
	-			I

WELL LOG

COUNTY _		STATE
DYN. LOAI	DED	DEPTH BOTTOM CHARGE
CAPS LOAI	DED	TRUCK No.
DATE	9-14-73	<u> </u>
FROM	то	FORMATION
0_	25	sandy clay, caliche
25	52	sand & sandstone
52	70	sandy clay, sand
70	142	sand & gravel with
		clay layers
142	151	yellow clay & lime
151	172	
172	189	sand, sandstone,
		pandy clay stringers
189	190	red bed
<u> </u>		

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Cit. Servicore 11

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Cabean (Was)

Byrom ' 9 F-6471 - 17K.-

M.P.Grace

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Tex. Pocific Oil

Well Ownersh	aip: BOBBY LEWIS	Well No. TW-16
Land Status:	State Federal X Fee	
Well Locatio	on: Unit I , Section 27 , T 9 S - R 36	E 300' ESE of Sun's
Well #2		
Type Well: _	Test Well	Depth: 180 feet.
Well Use:	Water Analysis	
Sample Numbe	r:#38 Date Taken	9-10-73
	Specific Conductance:m/_	
	Total dissolved Solids: PPM.	
	Chlorides: 5765.0 PPM.	Upper & Lower Water Zones Mixed
	Sulfates: PPM.	•
	Ortho-phosphates: V. low Low	Med. High
	Sulfides: None Low	Med. High
•		
Date Analize	d: 9-10-73 By: Skin e	v. Rungan
Pomarko.	Top Blue Clay at 153'. No water above blue	
Memorius.	Top Red Beds at 178'. Very poor water sand	
	Bailed sample #38 four hours after completing	ng test hole.
Complete Manager Comment and species		

Well Ownership: BOBBY LEWIS Well No. TW-17
Land Status: State Federal Fee
Well Location: Unit I, Section 27, T 9 S - R 36 E 700' directly in
line with TW-16 and Mobil's doghouse (SE)
Type Well: Test well Depth: 180 feet.
Well Use: Water Analysis
Sample Number: #36 Date Taken: 9-10-73
Specific Conductance:m/_
Total dissolved Solids:PPM.
Chlorides: 13,290.0 ppm. Upper Water Zone
Sulfates:PPM.
Ortho-phosphates: V. low Low Med. High
Sulfides: None Low Med. High
Date Analized: 9-10-73 By: John W. Hungan N.M.O.C.C.
Remarks: Top Blue Clay at 149'. Poor water sand.

Well Ownership: Bobby Lewis	Well No. TW-15
Land Status: State Federal	⊠ Fee
Well Location: Unit H , Section 35 , T 9 from TW-14	_S - R <u>36</u> E <u>700' (SE) 1280 m.n</u>
	D41 100 C
	Depth: <u>190</u> feet.
Well Use: Water Analysis	
Sample Number: # 35	Date Taken: 9-1-73
Specific Conductance:	m/
Total dissolved Solids:	WATER
Chlorides: 6,700.0	
Sulfates:	PPM.
Ortho-phosphates: V. low	Low Med. High
Sulfides: None	Low Med. High
*	
Date Analized: 9-1-73 By:	John W. Rungan
page of the plus olay at 1701	N.M.O.C.C.
Remarks: Base of the Blue Clay at 170	
Top of the Red Beds at 188	
Sample from 170' to 188', fai	
Sample has an extremely bitter taste besides	
more bitter taste then sample # 33 which has	s greater chloride (salt) content.

Well Ownership: Bobby Lewis Well No. TW-15
Land Status: State Federal 🔀 Fee
Well Location: Unit H, Section 35, T 9 S - R 36 E 700' (SE) 1280 m.n.
from TW-14.
Type Well: Test Well Depth: 190 feet.
Well Use: Water Analysis
Sample Number: # 34 Date Taken: 9-1-73
Specific Conductance:m/_
Total dissolved Solids: PPM. UPPER WATER Chlorides: 6,900.0 PPM. ZONE
Sulfates:PPM.
Ortho-phosphates: V. low Low Med. High
Sulfides: None Low Med. High
Date Analized: 9-1-73 By: John W. Armyan N.M.O.C.C.
Remarks: Top of the Blue Clay at 155. Zone very poor; The sample has an
extremely bitter taste besides the taste of salt. This sample has a more bitter
taste then sample # 33 which has a greater chloride content.

					•
Well Ownership:	Bobby Lewis	3	K	ell No	TW-14
Land Status:	State	Federal	. T ee		
Well Location:	Unit_B_, Sect	35 , T	S - R <u>36</u> E	1000'	(SE) 128 ⁰ m.n
from TW-13					
Type Well:	•			th: <u>191</u> fe	et.
Well Use:	Water Analysis				
Sample Number:_	# 33		Date Taken: _	9-1-73	
Spe	ecific Conductar	nce:	m/		
Tot		olids: rides: fates:	0.0 PPM.	LOWER WATER ZONE	·
0rt	tho-phosphates:	V. low	Low Med	. High	
	Sulfides:	None	Low Med	. High	
	•				
Date Analized:	9-1-73	Ву	John W. N.M.O.C	Runya .c.	n
Remarks: Bas	se of the Blue (Clay at 168'			
	of Red Beds at				_
Sample from	168' to 190'.	Fair water zo	one. Sample se	ems to have	an
additional	bitter taste be	esides the tag	ste of much sal	t.	
				<u>, , , , , , , , , , , , , , , , , , , </u>	

Well Ownership: Bobby Lewis	Well No. TW-14
Land Status: State Federal Fee	
Well Location: Unit B , Section 35 , T 9 S - R 36	E 1000' (SE) 1280 m.n.
from TW-13.	
Type Well: D	epth: <u>191</u> feet.
Well Use: Water analysis	
Sample Number: # 32 Date Taken:	9-1-73
Specific Conductance:m/_	
Total dissolved Solids:PPM. Chlorides: 10,010.0 PPM.	UPPER WATER ZONE
Sulfates:PPM.	
Ortho-phosphates: V. low Low M	ed. High
Sulfides: None Low M	ed. High
•	
Date Analized: 9-1-73 By: John Lab. N.M.O	Sunyan.
Remarks: Top Blue Clay at 151'. Zone above very poo	r; the sample seems to
have an additional bitter taste besides the taste of muc	•
	,

Well Ownersh	ip: Bobby L	ewis	ļ	Vell No. TW-13
Land Status:	State	☐ Federal	∑ Fee	
Well Locatio	n: Unit B, Se	ection 35, T	<u>9</u> S - R <u>36</u> I	1000' (SE) 1280 m.n.
from TW-12	· Change in li	ne by 10° to ϵ	east.	
Type Well: _	Test Well		Deg	oth: 192 feet.
Well Use:	Water Analys	is		
Sample Numbe	r:# 31		Date Taken:	8-31-73
	Specific Conduc	tance:	m/	
· .	Total dissolved	Solids:		LOWER WATER ZONE
	S	ulfates:	PPM.	
•			Low Med	High
	1	s: None		
		:		
Date Analized	d: <u>8-31-73</u>	}	By: John W N.M.O.O	Runyan.
Remarks:	Base of Blue Cl	ay at 175'		
	Top of Red Beds	at 192'. Sam	ple from 175' to	192'.
	Strong water zo	ne.		
.				
		······································		

Well Ownersh	ip: Bobby Lev	wis	We	11 NoTW-13
Land Status:	State	☐ Federal	🔀 Fee	
Well Locatio	n: Unit_B, S	ection 35 , T	9 S - R <u>36</u> E	1000' (SE) 128° m.n.
	. Change in li			
Type Well: _	Test Well		Dept	h: <u>192</u> feet.
Well Use:	Water Analys	sis		· · · · · · · · · · · · · · · · · · ·
Sample Numbe	r:# 30		Date Taken:	8-31-73
	Specific Condu	ctance:	m/2	
		d Solids:		UPPER WATER ZONE
		Sulfates:	PPM.	
•	Ortho-phosphate	es: V. low	Low Med.	High
	Sulfide	es: None	Low Med.	☐ <u>Hi</u> gh
Date Analize	d: 8-31-73	Ву	y: John W. N.M.O.C.	Runyan c.
Remarks:	Sample from abo	ve blue Clay.	Top Blue Clay at	154'
	Poor water sand			

Well Ownership: Bobby Lewis	Well No. TW-12
Land Status: State Federal Fe	ee .
Well Location: Unit 0, Section 26, T 9 S - R. from TW-10	36 E 900' (SE) 138° m.n.
Type Well:Test Well	Depth: 190 feet.
Well Use: Water Analysis	
Sample Number: #29 Date Tak	en: 8-31-73
Specific Conductance:m/ Total dissolved Solids:PPM. Chlorides:PPM. Sulfates:PPM.	LOWER WATER ZONE
Ortho-phosphates: V. low Low Sulfides: None Low	Med. High
Date Analized: 8-31-73 By: Analized N.1	n.w. Kunyan.
Remarks: Bottom of the Blue Clay at 176'	
Top of the Red Beds at 189'	
Sample from 176' - 189'. Poor water sa	and.

Well Ownership: Bobby Lewis	Well No. TW-12
Land Status: State Federal	Fee
Well Location: Unit 0 , Section 26 , T 9 S -	R 36 E 900' (SE) 1380 m.n.
from TW-10	
Type Well:Test Well	Depth: 190 feet.
Well Use: Water Analysis	
Sample Number: # 28 Date	Taken: 8-31-73
Specific Conductance:m	In
Total dissolved Solids:P Chlorides: 13,300.0 P	WATER
Sulfates:P	PM.
Ortho-phosphates: V. low Low	Med. High
Sulfides: None Low	Med. High
Date Analized: 8-31-73 By:	N.M.O.C.C.
Remarks: Top Blue Clay at 153'	
Very little water in this zone	
• •	

Well Ownership: Bobby Lewis	Well No. TW-ll
Land Status: State Federal 🔀 Fee	2
Well Location: Unit $\frac{N}{}$, Section $\frac{26}{}$, T $\frac{9}{}$ S - R $\frac{1}{}$	36 E
500 (SW) - 2280 m.n from TW-10	
Type Well: Test well	Depth: 190 feet.
Well Use: Water analysis	
Sample Number: # 27 Date Take	en: <u>8-30-73</u>
Specific Conductance:m/_	
Total dissolved Solids:PPM. Chlorides:4785.0PPM.	LOWER WATER ZONE
Sulfates:PPM.	
Ortho-phosphates: V. low Low	Med. High
Sulfides: None Low	Med. High
	;
	Lunyan 1.0.c.c.
Remarks: Bottom of Blue Clay at 173'	
Top Red Beds at 188'	
strong water sand.	

Well Ownershi	ip: Bobby Lewis	Well No. TW-11
Land Status:	State Federal Fee	
Well Location	n: Unit $\frac{N}{}$, Section $\frac{26}{}$, T $\frac{9}{}$ S - R $\frac{36}{}$, E
500' (SW)	- 2280 m.n from TW-10	
Type Well:	Test Well De	epth: 190 feet.
Well Use:	Water analysis	
Sample Number	r:# 26 Date Taken:	8-30-73
	Specific Conductance:m/ Total dissolved Solids:PPM. Chlorides: 3810.0PPM.	UPPER WATER ZONE
	Sulfates:PPM. Ortho-phosphates:V. lowLowMe Sulfides:NoneLowMe	
Date Analized	::	Ringan
Remarks:	Top of Blue Clay at 154'	
	poor water sand.	
	·	
·		
•		

Well Ownership: Bobby Lewis Well No. TW-10
Land Status: State Federal 🔀 Fee
Well Location: Unit N, Section 26, T 9 S - R 36 E
800' (SE) - 1380 m.n from TW-4.
Type Well: Depth: Depth: Depth: Teet.
Well Use: Water analysis
Sample Number: # 25 Date Taken: 8-30-73
Specific Conductance:m/_
Total dissolved Solids:PPM. LOWER WATER Chlorides: 10,620.0 PPM. ZONE
Sulfates:PPM.
Ortho-phosphates: V. low Low Med. High
Sulfides: None Low Med. High
Date Analized: 8-30-73 By: John W. Rungan N.M.O.C.C.
Remarks: Bottom of blue clay @ 174'
Top of Red Beds @ 181'
Fair water sand from 5 - 10 gal./min.
·

Well Ownership: Bobby Lewis	Well No. TW-10
Land Status: State Federal Fee	
Well Location: Unit $\frac{N}{}$, Section $\frac{26}{}$, $\frac{9}{}$ S - R $\frac{36}{}$. E
800' (SE) - 138° m.n.) from TW-4.	
Type Well: Test Well D	epth: <u>190</u> feet.
Well Use: Water analysis	
Sample Number: # 24 Date Taken:	8-30-73
Specific Conductance:m/_	
Total dissolved Solids:PPM.	UPPER WATER
Chlorides: 9590.0 PPM.	ZONE
Sulfates:PPM.	
Ortho-phosphates: V. low Low Me	ed. High
Sulfides: None Low M	ed. High
; · · · · · · · · · · · · · · · · · · ·	* :
Date Analized: 8-30-73 By: N.M.O	Lunyan C.C.
Remarks: Sample taken above Blue Clay @ 153'	s
Very little water in this zone.	
	· ·

Well Ownership: Bobby Lewis	Well No. TW-9
Land Status: State Fe	deral 🔀 Fee
Well Location: Unit L, Section	26, T 9 S - R 36 E 500' due west
(2700 m.n.) of Mobil's (P&A) well #4	
Type Well:Test Well	Depth: 195 feet.
Well Use: Water Analysis	
Sample Number: # 23	Date Taken: 8-29-73
Specific Conductance:	m/
Total dissolved Solids:	
Chlorides:	78.0 PPM. ZONE
Sulfates:	PPM.
Ortho-phosphates: V.	low Med. High
Sulfides: 🔀 N	one Low Med. High
Date Analized: 8-29-73	By: Orm W. Rungan N.M.O.C.C.
Remarks: Bottom of Blue Clay 182	
Top Red Beds @ 193'	·
Good water sand 182' - 19	3'. Est. 10-12 gal./min.

Well Ownership	: Bobby Lev	vis		Well No. TW-9
Land Status:	State	☐ Federal	. 🔀 Fee	:
Well Location:	Unit_L , Se	ction 26, T	9 S - R	86 g 500' due west
(270° m.n.) o	f Mobil's (P&A)	well #4.	- <u>-</u>	
Type Well:	Test Well			Depth: 195 feet.
Well Use:	Water Analysis	·		
Sample Number:	# 22		Date Take	n: <u>8-29-73</u>
S	pecific Conduct	tance:	m/	
	otal dissolved	Solids:		UPPER WATER ZONE
	Sı	ılfates:	PPM.	
0	rtho-phosphates	s: <u>V. low</u>	Low	Med. High
	Sulfides	None	Low	Med. High
				:
Date Analized:	8-30-73	B	y: <u> </u>	W. Russan
Remarks: No	water above 135		V	
Тор	Blue Clay @ 14	8' Very lit	tle water be	ween 135 - 148'
		,		
			Paparaka sa manaka kana pada sa sa sa <u>sa saya ya ma</u> nda sa	

Land Status: ☐ State ☐ Federal ☑ Fee Well Location: Unit F, Section 26, T 9 S - R 36 E	Well Ownership: Bobby Lewis Well No. TW-8
Type Well: Test Well Depth: 185 feet. Well Use: Water analysis Sample Number: # 21 Date Taken: 8-29-73 Specific Conductance:	
Type Well: Test Well Depth: 185_ feet. Well Use: Water analysis Sample Number: # 21	Well Location: Unit F, Section 26, T 9 S - R 36 E
Well Use:Water analysis Sample Number: # 21	520' due north of Mobil's (P&A) well #4.
Sample Number: # 21 Date Taken: 8-29-73 Specific Conductance:	Type Well: Test Well Depth: 185 feet.
Specific Conductance:	Well Use: Water analysis
Total dissolved Solids:PPM. LOWER WATER ZONE Chlorides:PPM. ZONE Sulfates:PPM. Ortho-phosphates:PPM. Sulfides:NoneLowMedHigh Sulfides:NoneLowMedHigh By:N.M.O.C.C. Remarks:Sample taken from between the Blue Clay and Red Beds. 161 - 184'.	Sample Number: # 21 Date Taken: 8-29-73
Chlorides: PPM. ZONE Sulfates: PPM. Ortho-phosphates: V. low Low Med High Sulfides: None Low Med High : Date Analized: 8-29-73	Specific Conductance:m/_
Sulfates:PPM. Ortho-phosphates:V. lowLowMedHigh Sulfides:NoneLowMedHigh	WATER
Ortho-phosphates: V. low Low Med. High Sulfides: None Low Med. High Date Analized: 8-29-73 By: Many W. Manyam N.M.O.C.C. Remarks: Sample taken from between the Blue Clay and Red Beds. 161 - 184'.	Chlorides: 85.2 PPM. ZONE
Sulfides: None Low Med. High By: W. M. W. Mungfart N.M.O.C.C.	Sulfates:PPM.
Date Analized: 8-29-73 By: John W. Munufant N.M.O.C.C. Remarks: Sample taken from between the Blue Clay and Red Beds, 161 - 184'.	Ortho-phosphates: V. low Low Med. High
Remarks: Sample taken from between the Blue Clay and Red Beds, 161 - 184'.	Sulfides: None Low Med. High
Remarks: Sample taken from between the Blue Clay and Red Beds, 161 - 184'.	
	Date Analized: 8-29-73 By: Jan W. Rungan
	N.M.O.G.G.
very good water sand, estimated 15+ gal/min.	
	very good water sand, estimated 15+ gai/min.
	· · · · · · · · · · · · · · · · · · ·

Well Ownership: Bobby Lewis Well No. TW-8
Land Status: State Federal Fee
Well Location: Unit F, Section 26, T 19 S - R 36 E
520° feet due north of Mobil's (P&A) well #4
Type Well: Test Well Depth: 185 feet.
Well Use:Water analysis
Sample Number: # 20 Date Taken: 8-29-73
Specific Conductance:m/_
Total dissolved Solids:PPM. UPPER WATER
Chlorides: 81.6 PPM. ZONE
Sulfates:PPM.
Ortho-phosphates: V. low Low Med. High
Sulfides: None Low Med. High
Date Analized: 8-29-73 By: John W. M. M.O.C.C. N.M.O.C.C.
Top Blue Clay @ 151'
Fair - good amount of water.

Well Ownership:	Bobby Let	vis		Wel	l No	TW-7
Land Status:	State	☐ Federal		Fee		
Well Location: U	nit J , Sec	tion 26 , T	<u>9</u> s - 1	R <u>36</u> E		
320 feet due ea	st (90° m.n.	of TW-5				
Type Well:Tes Well Use:Wat				Depth	: <u>185</u> fee	et.
well use:						
Sample Number:	# 19	·	Date Ta	aken:	8-28-73	
Spec	ific Conducta	ance:	m/_	2		
Tota	l dissolved S		-		LOWER WATER ZONE	
	Curo	orides:156	PPI	1.	ZOND	
	Sul	Lfates:	PP)	1.		
Orth	o-phosphates	V. low	Low	Med.	<u>High</u>	
	Sulfides	None	Low	☐ <u>Med</u> .	<u>High</u>	
Date Analized:	8-28-73	E	y: John	<u>n W. /</u>) ungar	<u> </u>
ma a	es ned nede	-+ 107!	// r	N.M.O.G.G.	. 0	
Remarks: Top	-					
Fai	r water sand.					
			**************************************			ad paragagagagagagagagagagagagagagagagagaga
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			and the second of the second o			

Well Ownership: Bobby Lewi	s	Well	No	TW-7
Land Status: State				
Well Location: Unit J, Section	n <u>26</u> , T <u>9</u> S -	R <u>36</u> E _		
320 feet due east (90° m.n.)	of TW-5			
Type Well:Test Well		Depth:	185	feet.
Well Use: Water analysis				
Sample Number: # 18	Date T	aken:	8-28-7	3
Specific Conductanc	e:m/_		unnen	
Total dissolved Sol	ids:PP	М.	UPPER WATER	
Chlori	des: 94.3 PP		SAND	
Sulfa	tes:PP	м.		·
Ortho-phosphates: [V. low Low	Med.	☐ <u>Hig</u> l	1
Sulfides:	None Low	Med.	☐ <u>Hi</u> gh	!
:				:
Date Analized: 8-29-73	By:	N.M.O.C.C.	nga	n
Remarks: Top Blue Clay at 154'	\mathcal{O}		U	
Memarks.	· very are ere water	THE ROTTE		
`				

Well Ownership: Bobby Lewis	Well No. TW-6
Land Status: State Federal Fee	
Well Location: Unit K , Section 26 , $T = 9$ $S - R = 3$	86 E 200' at 97° (M.N.)
from abd. Mobil Batt. Also, 220° to Mobil's well #3 8	360° to Mobil's well #4.
Type Well: Test Well	Depth: 185 feet.
Well Use:Water analysis	
Sample Number: # 17 Date Taker	n: 8-28-73
Specific Conductance:m/_	
Total dissolved Solids:PPM. Chlorides:3230.0PPM.	LOWER WATER SAND
Sulfates:PPM.	
Ortho-phosphates: V. low Low	Med. High
Sulfides: None Low .	Med. High
Date Analized: 8-28-73 By: N.M.	o.c.c.
Remarks: Bottom Blue Clay @ 165'	
Top of the Red Beds @ 184'	
Fair water sand.	
TW-6 is also 220° to Mobils well $\#3$ and 360° to Mo	obils well #4.

Well Ownership: Bobby Lewis	Well No. TW-6
Land Status: State Federal Fee	
Well Location: Unit K , Section 26, T $\frac{9}{}$ S - R $\frac{3}{}$	6 E 200' at 97° (m.n.)
from abd. Mobil Batt. Also, 2200 to Mobil's well #3	1
Type Well:Test well	Depth: <u>185</u> feet.
Well Use: Water Analysis	
Sample Number: #16 Date Taken	: 8-28-73
Specific Conductance:m/_	
Total dissolved Solids:PPM.	UPPER WATER
Chlorides: 2690.0 PPM.	SAND
Sulfates:PPM.	
Ortho-phosphates: V. low Low	Med. High
Sulfides: None Low	Med. High
· · · ·	
	1. Runyan O.C.C.
Remarks: Sample from immediate above the Blue Clay	
Poor Water sand.	
TW-6 is also 2200 m.n. to Mobils #3 and 3600 to Mobils	- #A
TW-0 13 d130 2200 m.m. to Mobils #3 and 3000 to Mobils	5 ##•

Well	Ownership:	Bobby	Lewis		Wel	11 No	TW-5
Land	Status:	State	☐ Federal		Fee		
Well	Location:	Unit J?, Se	ction 26, T	<u>9</u> s - 1	R <u>36</u> E	260° ea	est and 60'
		s - Santa Fe					
Туре	Well:	Test Well			Depth	: <u>188</u> fe	eet.
Well	Use:	Water analy	rsis			 	
Sampl	le Number:_	#15		Date Ta	aken:	8-27-73	3
	Spe	ecific Conduc	tance:	m/_	n.		
	To1		Solids:			LOWER WATER ZONE	
	·	. \$	ulfates:	PP	м.		
•	0rt	tho-phosphate	s: <u>V. low</u>	Low	☐ Med.	High	
		Sulfide	s: 🔀 None	Low	☐ <u>Med</u> .	☐ <u>Hi</u> gh	
	:		:				
Date	Analized:_	8-27-73]	By: John	7 N.M.O.C.C	Runy	an
Remar	ks: Samp	le from 176	- 186', betwee	en the blue	e & red c	lay.	
This	s zone has a	a fair water	sand, est. 8-	10 gal. per	c minute.		
							
	_			· · · · · · · · · · · · · · · · · · ·			
•							
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Well Ownership	Bobby L	ewis		Well No. TW-5	
Land Status:	State	☐ Federal	Tee	2	
Well Location	: Unit <u>J?</u> , Se	ction 26, T	<u>9</u> S - R _	36 E 260' east and 6	50'
	ils - Santa Fe				
Type Well:	Test Well			Depth: 188 feet.	
Well Use:	Water analysis	·			
Sample Number:	:#14	·	Date Take	en: 8-27-73	· · · · · · · · · · · · · · · · · · ·
	S Ortho-phosphate	Solids:3 lorides:3 ulfates: s:	PPM. 996.0 PPMPPM	UPPER WATER ZONE Med. High Med. High	
Pomarke.	• . • .		7	,	
		ve the Blue Cl	av. Top of	Blue Clay at 176'.	
Poor water s					
· · · · · · · · · · · · · · · · · · ·					
					

Well Ownership:	Bobby Lewis	We:	ll No. TW-4
Land Status:	State Federal	L 💮 🎇 Fee	
Well Location: Uni	it K , Section 26 , 1	r <u>9</u> S - R <u>36</u> E	Test hole loc. 140'
due south of dispo	sal pit & 300' ESE of	Mobil - Santa Fe Pa	cific #4
Type Well:Test	Well	Deptl	n: <u>190</u> feet.
Well Use: Water	Analysis		
Sample Number:	#13	Date Taken:	8-27-73
-	fic Conductance: dissolved Solids: Chlorides:	PPM.	LOWER WATER ZONE
Ortho-	Sulfates:	Low Med.	☐ <u>High</u>
	Sulfides: None	Low Med.	High
Date Analized:	8-27-73	By: John W. N.M.O.C.	Rungan
<u> </u>	between blue clay and	red beds. Top red	bed 185'.
	eater sand. Pacific #4 is located l	980 S. & 1650 W., s	ec. 26 - 9 - 36.
		, , , , , , , , , , , , , , , , , , ,	

Well Ownersh	nip: Bobby Lew	is	W	ell No. TW-4
Land Status:	State	☐ Federal	E Fee	
Well Locatio	n: Unit <u>K</u> , Se	ection 26, T_	<u>9</u> S - R <u>36</u> E	Test hole loc. 140'
due south o	f disposal pit &	ESE of Mobil ~	Santa Fe Pacifi	ic #4 by 300'
Type Well: _	Test Well		Dep	th: <u>190</u> feet.
Well Use:	Water Analysis			
Sample Numbe	r:#12		Date Taken: _	8-27-73
,	•	•	PPM. 5.0 PPM.	UPPER WATER ZONE
	Ortho-phosphate Sulfide	s: V. low	Low Med	_
Date Analize	d: <u>8-27-73</u>	Ву	: John W. N.M.O.C	! Runyan
Remarks: Mol	bil's - Santa Fe	Pacific #4 is	located 1980 S	. & 1650 W.
Sample from	immediately above	ve the blue clay	y @ 145 - 152'.	Weak water sand.
Top of Blue	Clay at 155'.			
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Well Ownership: Bobby Lewis Well No. TW-3
Land Status: State Federal Fee
Well Location: Unit M , Section 26 , T 19 S - R 36 E 500' (ESE) at 104°
M.N. from Mobils- Santa Fe Pacific #3 660 W. & 660 S.
Type Well: Test Well Depth: 190 feet.
Well Use: Water Analysis
Sample Number: # 11 Date Taken: 8-24-73
Specific Conductance:m/_
Total dissolved Solids:PPM. LOWER WATER
Chlorides: 7925.0 PPM. ZONE
Sulfates:PPM.
Ortho-phosphates: V. low Low Med. High
Sulfides: None Low Med. High
:
Date Analized: 8-24-73 By: John W. Runyan N.M.O.C.C.
Remarks: Water zone between blue clay and redbeds, 182 -189'
Weak water sand.
From TW-3 to TW-11 is 53° (M.N.) and 775'.

Well Own	ership:	Bobby	Lewis		Well No	TW-3
Land Sta	tus:	State	☐ Federal	Fee		
Well Loc	ation:	Unit M, S	section <u>26</u> , T	<u>19</u> S - R <u>36</u>	E 500	' (ESE) at 104°
Magneti	c_north	from Mobils	_ Santa Fe Pac	eific #3 66	60 W. & 660	S.
Type Wel	1: <u>Te</u>	st Well			Depth: 190	feet.
Well Use	:Wa	ter Analysi	S			
Sample N	umber:	# 10		Date Taken:	8-24-73	
	Spe	cific Condu	ctance:	m/		
	Tot		d Solids:7			UPPER WATER ZONE
			Sulfates:	PPM.		
	0rt	ho-phosphat	es: V. low	Low M	ſed. ☐ Hig	<u>;h</u>
	•		es: 🔀 None		_	
Date Ana	lized:	8-24-73	E	By: John 1 N.M.O	V. Rung	lan_
Remarks:	Wate:	r sample fr	om zone immedia	tely above the	Blue Clay a	it 144',
	Very	little wat	er in zone.			
From	TW-3 to	TW-ll is 5	3 ⁰ (M.N.) and 7	751.		

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Well Ownership: <u>Bobby Lewis</u>	Well No. TW-2
Land Status: State Federal	
Well Location: Unit \underline{P} , Section $\underline{34}$, T	9 S - R 36 E 300 feet due east
of Texaco - U.D. Sawyer #1	
Type Well: Test well	Depth: 178 feet.
Well Use: Water analysis	
Sample Number: None	Date Taken: 8-24-73
Specific Conductance:	m/
Total dissolved Solids:	PPM.
Chlorides:	PPM.
Sulfates:	PPM.
Ortho-phosphates: V. low	Low Med. High
Sulfides: None	Low Med. High
Date Analized: By	: John W. Rungan
Remarks: No water found. Both test wel	lls are in line between Texaco's
pit and the ranch house.	
•	

Well Ownership:	Bobby Lewi	3		We]	ll No. <u>TW-1</u>	la caracteria de la caracte
Land Status:	State	☐ Federa	. 🔀	Fee		
Well Location:	Unit P , Sec	tion <u>34</u> ,	r <u> </u>	R <u>36</u> E	300 ' ESE	of Texaco
SWD emergancy	pit & 200' SE	of Texaco -	U.D. Sawy	/er #1 P	-34-9-36	
Type Well:T	est well			Depth	: <u>200</u> feet	•
Well Use:W	ater analysis					
Sample Number:_	None	·	Date	Taken:	8-23-73	
Sp	ecific Conduct	ance:	m	1-2		
То	tal dissolved	Solids:	P	PM.		
•	Chl	orides:	P	PM.		
•	Su	lfates:	P:	PM.		
0r	tho-phosphates	: \[\text{V. low}	Low	☐ Med.	High	•
		None			High	
						
Date Analized:			By:	In w N.M.O.C.	Reinga	21
Remarks: No v	vater encounter	ed.			•	
		***************************************				•
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Well Ownership: <u>Bobby Lewis</u>	Well No
Land Status: State Federal	Fee
Well Location: Unit \underline{E} , Section $\underline{36}$, T	9 S - R 36 E "East Mill"
approx. 4 mile due east of ranch house.	
Type Well: Windmill	Depth: <u>170+</u> feet.
Well Use: Stock	
Sample Number: # 9	Date Taken: 8-23-73
Specific Conductance:	m/
Total dissolved Solids:	PPM.
Chlorides: 177	7.5 PPM.
Sulfates:	PPM.
Ortho-phosphates: V. low	Low Med. High
Sulfides: None	Low Med. High
•	
Date Analized: 8-23-73 By	: John w. Rungan N.M.O.C.C.
Remarks: Mill was pumping when sample was	

Well Ownersh:	ip: Bobby Lewis	3		Wel	l No
Land Status:	State	☐ Federal	F	ee	
Well Location	n: Unit <u>P</u> , Se	ction <u>14</u> , T	<u>9</u> S - R	36 E	"North Pasture"
Approx. 2	½ miles due nort	th of ranch ho	use.		
Type Well:	Electric Pump			Depth	:feet.
Well Use:	Stock			-,	
Sample Number	r:#8	·	Date Ta	ken:	8-23-73
	Specific Conduc	tance:	m/	L	
	Total dissolved	Solids:	PPM	•	
•	Ch	lorides:	28.0 PPM	•	
•	S	ulfates:	PPM	•	
	Ortho-phosphates	s: <u>V. low</u>	Low	Med.	High
	Sulfide	s: X None	Low	☐ Med.	High
		:			
Date Analized	8-24-73	F	By: John	/ <u>, W. //</u> .M.O.C.C	Runyan_
Remarks:	Took sample fro	om well after	pumping for	few mir	nutes.
					·

Well Ownershi	ip: BOBBY LEWIS Well No. Re-entry TW-1
Land Status:	State Federal Fee
Well Location	n: Unit A , Section 34 , T 9 S - R 36 E 300' due east of
Texaco, U.D.	Sawyer #1 (well in A-34-9-36).
Type Well:	Test well Depth: 178 feet.
Well Use:	Water analysis
Sample Number	: #57 Date Taken: 9-17-73
	Specific Conductance:m/
	Total dissolved Solids: PPM.
	Chlorides: 85.2 ppm. Upper and Lower Zones mixed
•	Sulfates:PPM.
	Ortho-phosphates: V. low Low Med. High
	Sulfides: None Low Med. High
Date Analized	8y: John W. Runyan N.M.O.C.C.
Remarks:	Re-entered TW-l and bailed water sample. Refer to original page on
The section of the second consequence of the second	Tw-1.
Peter de la	Could not re-enter TW-2 due to caved hole.
	Sample #58 house well, 9-17-73, was 78.1 PPM chlorides
	no change.
Den Admir de Maria de Carlo de Maria de April de Carlo de	
Water statement and a second and	

Well Ownersh	ip: BOBBY	LEWIS		Well N	10. <u>T</u>	W-26	
	State n: Unit D, Second Texaco's because the second			. Ε	900'	(WSW)	in line
	Test well Water Analysis		Do	epth: _	186_fe	eet.	
Sample Numbe	Specific Conductor Total dissolved	stance: Solids: lorides: Solids: Solid	PPMPPMPPM.	Lower (Zone	·
	d: 9-17-73		:	.c.c.	Ru	ng	3-m
Remarks:	- مسجود و داکست داخون است به خواه الفاط الفا - الفاط ا	ay at 140'. Bo	d water sand ~	- frest	1.	dry	
Matter between the control of the co							

Well Ownersh	ship: BOBBY LEWIS	Well No. TW-25
Land Status:	3: State Federal X Fee	
Well Location	ion: Unit C, Section 35, T 9 S - R 36	E 900' (WSW) in line
from TW-24	toward Texaco's battery	
Type Well:	Test Well D	epth: 192 feet.
Well Use:	Water Analysis	
Sample Number	er:#55 Date Taken:	9-17-73
	Specific Conductance:m/	
	Total dissolved Solids:PPM.	
•	Chlorides: 71.0 ppm. Lo	ower Water Zone
	Sulfates:PPM.	
	Ortho-phosphates: V. low Low M	ed. High
	Sulfides: None Low M	
		and the state of t
Date Analized	ed: 9-17-73 By: N.M.O	n. Perman
Remarks:	Bottom of Blue Clay at 160'. Top of I	Red Beds at 191'.
	Good water sand fresh.	
20 жылы такке жаза табалын кайтаны так		
	•	-

Well Ownership: BOBBY LEWIS	Well No. TW-25
Land Status: State Federal Fee	
Well Location: Unit C, Section 35, T 9 S - R	36 E 900' (WSW) in line
from TW-24 toward Texaco's battery	
Type Well: Test Well	Depth: 192 feet.
Well Use: Water Analysis	
Sample Number: #54 Date Take	n: 9-17-73
Specific Conductance:m/_	
Total dissolved Solids:PPM.	
Chlorides: 142.0 PPM.	Upper Water Zone
Sulfates:PPM.	
Ortho-phosphates: V. low Low	Med. High
Sulfides: None Low	
	N. Rungan
Remarks: Top of blue clay at 148'. Poor water sa	
ACCINCT SOC.	

Well Owners	nip: BOI	BBY LEWIS		Wel.	1 NoTW-24	
Land Status	State	☐ Federal	⊠kF	,ee		
Well Location	on: Unit C,	Section 35 , T	9 S - R	36 E	900' (WSW) in li	ne.
from TW-13	toward Texaco's	s battery.				
Type Well:_	Test Well		744 <u> </u>	_ Depth	: 190 feet.	
Well Use:	Water Analys	is				
Sample Numbe	er:#53		Date Ta	ken:	9-14-73	الأود ميسون
	Specific Cond	uctance:	m/)		
	Total dissolv	ed Solids:	PPM	I•		
		Chlorides: 3795	.0 PPM	. Lower	water zone	
		Sulfates:	PPM		•	
	Ortho-p hospha	tes: V. low	Low	Med.	□ <u>High</u>	
	Sulfi	des: None	Low	☐ Med.	☐ <u>Hi</u> gh	
Date Analize	d: 9-14-73	В	y:	Low.	Kunyan	
Remarks:	Bottom of b	lue clay at 172'	. Top of 1	Red Beds	at 189'.	
***************************************		ng water sand -				
					•	
Contract of the second						

Well Ownership: BOBBY LEWIS	Well No. TW-	-24
Land Status: State Federal X Fee		
Well Location: Unit C , Section 35 , $T 9 S - R 36$	E 900' (WSV	<pre> /) in line </pre>
from TW-13 toward Texaco's battery.		
Type Well: Test well De	epth: 190 feet	•
Well Use: Water Analysis		
#52 Sample Number: Date Taken:	9-14-73	
Specific Conductance:m/_		
Total dissolved Solids:PPM.		
Chlorides: 3400.0 PPM.	Jpper Water Zone)
Sulfates:PPM.		•
Ortho-phosphates: V. low Low Me	d. High	
Sulfides: None Low Me	d. High	
Date Analized: 9-14-73 By: Shin to	. Runsa	<u> </u>
Remarks: Top of Blue Clay at 151'. Fairly good was	U.U.	y bitter
taste contaminated.		
•		

Well Ownersh	ip: BOBBY LEW	vis		Well No	
	State				
Well Location	n: Unit, Sect	ion, T	CONTRACTOR S - R CONTR	E North pas	ture by
steer pastur	e cattle guard.				
	Cased water well			Depth: ? feet	•
Well Use:	Stock not in us	e at present			
Sample Number	#51			n: <u>9-14-73</u>	
	Specific Conducta				
	Total dissolved S	•			
•	Chlo	rides:	PPM.		
	Sul	fates:	PPM.		
	Ortho-phosphates:	V. low	Low	Med. High	
	Sulfides:	None	Low	Med. High	
•	9	Corrections and Manager Par			
Date Analized	9-17-73		y: The	nw. Kun	lan_
	Good water zon		N.M.	0.C.C.	
	The second secon				
and describe the second of the					
en e					
					فياشم ويسمون المساورة المساورة
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Well Ownership	BOBBY L	EWIS		Well No	TW-23
Land Status:	State	☐ Federal	🔀 Fee		
Well Location:	Unit_G_,	Section 35, T	9 S - R <u>36</u>	E 900'	due west of
TW-15					
Type Well:T	est Well			Depth: 200	feet.
Well Use:W	ater analysi	3			
Sample Number:	#50	10-vananno-kashilibri Milanguayaa	Date Taken	9-14-	73
Sr	pecific Condu	ectance:	m/		
To	otal dissolve	ed Solids:	PPM.		·.
		Chlorides: 1360	PPM.	Lower water	r zone
		Sulfates:	PPM.		
Or	rtho-p hosphat	es: V. low	Low D	ſed. □Hi	g <u>h</u>
	Sulfic	les: None	Low D	1ed. ☐ Hi	g <u>'n</u>
. 474					indd9
Date Analized:	9-14-73	· .	y: N.M.	w. Run	yan_
		blue clay at 18	5		
	Poor wate	r sand contan	ninated.		
Contract	The Proceedings and the Contract of the Contra	Makanga mapa matahadi ka Sebagai <u>makanga pakanga</u> dapanga dapa diga dan kaba			
ter te a transfer de la constant de					
CONTRACTOR OF THE PROPERTY OF					
		Printed Commission of the Control of			
	•				

Well Ownership: BOBBY LEWIS	Well No. TW-23
Land Status: State Federal X Fee	
Well Location: Unit G , Section 35 , T 9 S - R 36	E 900' due west of
TW-15.	
Type Well: Test well	Depth: 200 feet.
Well Use: Water analysis	
Sample Number: #49 Date Taken	9-14-73
Specific Conductance:m/_	
Total dissolved Solids:PPM.	
Chlorides: 2070.0 PPM.	Upper water zone
Sulfates:PPM.	
Ortho-phosphates: V. low Low	ed. High
Sulfides: None Low D	led. ∐High
Date Analized: 9-14-73 By:	w. Rungon
Remarks: Top of blue clay at 160'. Fair water sa	nd contaminated
Remarks: Top of bide clay at 100. Fall water sa	
Epinet Programme (1900) and the second of the Park of Administration of the second of	
· · · · · · · · · · · · · · · · · · ·	

Well Ownership: BOBBY LEWIS	Well No. TW-22
Land Status: State Federal X Fee	
Well Location: Unit A, Section 35, T 9 S - R 3	5 E 600' down (south)
ranch road and 600' east of ranch road.	
Type Well: Test Well	Depth: 195 feet.
Well Use: Water Analysis	
Sample Number: #48 Date Taken	n: 9-13-73
Specific Conductance:m/	
Total dissolved Solids:PPM.	
Chlorides: 156.2 PPM.	Lower Water Zone
Sulfates:PPM.	
Ortho-phosphates: V. low Low	Med. High
Sulfides: None Low	Med. High
Date Analized: 9-13-73 By: N.M.	v. Kunyan
Remarks: Bottom of Blue Clay at 177'. Top of Red	Beds at 192'.
Good water zone fairly strong and fre	
Sea shells encountered just below blue of	elay.

Well Ownersh	ip: BOBBY LE	EWIS		_ Well No.	TW-22
Land Status:	State	☐ Federal	X Fe	e	
Well Location	n: Unit A , Sec	tion $\frac{35}{}$, T	9 S - R.	36 E 600	o' down (south)
ranch road	and 600' east of	ranch road.			
Type Well:	Test Well			Depth: 195	feet.
Well Use:	Water Analysis				
Sample Number	r:#47		Date Take	en: 9-13-7	73
	Specific Conduct	ance:	m/		
	Total dissolved	Solids:	PPM.		
	Chl	orides: 170	.0 PPM.	Upper Wat	er Zone
	Su	lfates:	PPM.		
	Ortho-phosphates	: <u> </u>	Low	Med. Hi	ig <u>h</u>
	Sulfides	: None	Low	Med. Hi	igh
		0 ************************************	·		(Australia)
Date Analized	9-13-73		By: John	m. Rus	nyan
				1.0.c.C.	0
Kemarks:	Top of Blue Cla	ly at 150°.	Poor water zo	one.	
	Patricia de Caración de Caraci				
Option and an exercise of the property of the section		The state of the s			
			-a-a-cultible Trace Title Tomp group		
		Tillegbok (Tagyrica) (talak Tre FOM) masu emanya Sun re			
Continue space					

Well Ownership: BOBBY LEWIS Well No. TW-21
Land Status: State Federal Fee
Well Location: Unit 0, Section 26, T 9 S - R 36 E 900' ESE
(38°) from TW-12
Type Well: Test Well Depth: 190 feet.
Well Use: Water Analysis
Sample Number: #46 Date Taken: 9-13-73
Specific Conductance:m/
Total dissolved Solids: PPM.
Chlorides: 1771.0 ppm. Lower Water Zone
Sulfates:PPM.
Ortho-phosphates: V. low Low Med. High
Sulfides: None Low Med. High
Date Analized: 9-13-73 By: Shu w. Runyan
Remarks: Bottom of Blue Clay at 175'. Top of Red Beds at 188'.
Good strong water zone contaminated.

Well Ownership: BOBBY LEWIS	Well No. TW-21
Land Status: State Federal Fee	•
Well Location: Unit 0, Section 26, T 9 S - R	36 E 900' ESE
(38°) from TW-12.	
Type Well: Test Well	Depth: 190 feet.
Well Use: Water Analysis	
Sample Number: #45 Date Take	n: 9-13-73
Specific Conductance:m/_	
Total dissolved Solids:PPM.	
Chlorides: 3060.0 PPM.	Upper Water Zone
Sulfates:PPM.	
Ortho-phosphates: V. low Low	Med. High
Sulfides: None Low	Med. High
Date Analized: 9-13-73 By: N.M.	n w. Rungan
Remarks: Top Blue Clay at 152!. Good water sand -	
Sea shell from just below blue clay.	

Well Ownership: Bobby Lewis	Well No
Land Status: State Federal Fee	
Well Location: Unit M, Section 16, T 9 S - R 36 Approx. 2 miles NW of the Ranch house.	E "West Pasture - N. Mill"
·	C
Type Well: Windmill D	eptn:reet.
Well Use:Stock	
Sample Number: # 7 Date Taken:	8-23-73
Specific Conductance:m/_	
Total dissolved Solids:PPM.	
Chlorides: 78.1 PPM.	
Sulfates:PPM.	
Ortho-phosphates: V. low Low M	ed. High
Sulfides: None Low M	ed. High
· • • • • • • • • • • • • • • • • • • •	
Date Analized: 8-24-73 By: John M.M.O	v. Runyan
Remarks: Mill was pumping when sample was taken.	

Well Ownership: BOBBY LEWIS	Well N	10	TW-20
Land Status: State Federal X Fee			
Well Location: Unit $\frac{P}{}$, Section $\frac{26}{}$, $\frac{9}{}$ S - R $\frac{3}{}$	6 E	300'	due North of
Junction of ranch road and highway.		· · · · · · · · · · · · · · · · · · ·	
Type Well: Test Well	Depth:	<u>195</u> f	eet.
Well Use: Water Analysis	···		
Sample Number: #44 Date Taker	ı: <u>9-</u>	12-73	
Specific Conductance:m/			
Total dissolved Solids:PPM.			
Chlorides: 142.0 PPM.	Lower W	ater 2	Zone
Sulfates:PPM.			•
Ortho-phosphates: V. low Low	Med.] <u>High</u>	
Sulfides: None Low	Med.	<u>High</u>	
			,
Date Analized: 9-12-73 By: N.M.	<u>n w.</u> 0.c.c.	Ru	ryan
Remarks: Bottom of Blue Clay at 176'. Top of Red	Beds at 1	193'.	
Good water zone fresh.			
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		· · · · · · · · · · · · · · · · · · ·	
		Zadania dan dan dan dan dan dan dan dan dan da	Our search in the third was to the search of
	•		

Well Ownership: BOBBY LEWIS	Well No. TW-20
Land Status: State Federal X Fee	
Well Location: Unit P, Section 26, T 9 S - R 36	Σ 300' due north of
junction of ranch road and highway.	
Type Well: Test Well	Depth: 195 feet.
Well Use: Water Analysis	<u> </u>
Sample Number: #43 Date Taken	9=12-73
Specific Conductance:m/_	
Total dissolved Solids:PPM.	
Chlorides: 142.0 PPM.	Upper Water Zone
Sulfates:PPM.	
Ortho-phosphates: V. low Low	ied. ☐ High
Sulfides: None Low	led. ☐ High
Date Analized: 9-12-73 By: Shine	v. Rungan
Remarks: Top Blue Clay at 157'. Fair water sand.	,
Memarias.	

Well Ownersh	ip: BOBBY LEWIS Well No. TW-19
Land Status:	State Federal X Fee
Well Location	n: Unit J, Section 26, T 9 S - R 36 E 1000' due South of
TW-18 in li	ne with ranch house.
Type Well:	Test Well Depth: 192 feet.
	Water Analysis
Sample Number	r: <u>#42</u> Date Taken: 9-12-73
	Specific Conductance:m/
	Total dissolved Solids:PPM.
	Chlorides: 135.0 PPM. Lower Water Zone
	Sulfates:PPM.
	Ortho-phosphates: V. low Low Med. High
	Sulfides: None Low Med. High
Date Analized	1: 9-12-73 By: John W. Rangern N.M.O.C.C.
Remarks:	Bottom Blue Clay at 166'. Top Red Beds at 191'. Strong Water Zone.

Well Ownership: BOBBY LEWIS	Well No. TW-19
Land Status: State Federal X Fee	
Well Location: Unit J , Section 26 , T 9 S - R 36	E 1000' due south of
TW-18 in line with ranch house.	
Type Well:Test WellD	epth: $\frac{192}{}$ feet.
Well Use: Water Analysis	
Sample Number: #41 Date Taken:	9-12-73
Specific Conductance:m/	÷
Total dissolved Solids:PPM.	
Chlorides: 142.0 PPM.	Upper Water Zone
Sulfates:PPM.	
Ortho-phosphates: V. low Low M	ed. High
Sulfides: None Low M	ed. High
	or management of the state of
Date Analized: 9-12-73	w. Rungan
N.M.O	.c.c.
Remarks: Top Blue Clay at 155'. Poor water zone.	

Well Ownership: BOBBY LEWIS Well No. TW-18
Land Status: State Federal Fee
Well Location: Unit G, Section 26, T 9 S - R 36 E 300' south of
Oil Development of Texas battery pit.
Type Well: Test Well Depth: 192 feet.
Well Use: Water Analysis
Sample Number: #40 Date Taken: 9-11-73
Specific Conductance:m/_
Total dissolved Solids:PPM.
Chlorides: 582.0 PPM. Lower Water Zone
Sulfates: PPM.
Ortho-phosphates: V. low Low Med. High
Sulfides: None Low Med. High
Date Analized: 9-11-73 By: John W. Kangen N.M.O.C.C.
Remarks: Base Blue Clay at 187'. Top Red Beds at 191'.
Good strong water sand.

Well Ownership: BOBBY LEWIS	Well No. TW-18
Land Status: State Federal X Fee	
Well Location: Unit G , Section 26 , T 9 S - R 3	6 E 300' due south of
Oil Development of Texas pit	
Type Well: Test Well	
Well Use: Water Analysis	•
Sample Number: #39 Date Taken	9-11-73
Specific Conductance:m/_	
Total dissolved Solids:PPM.	
Chlorides: 3690.0 PPM.	Upper Water Zone
Sulfates:PPM.	
Ortho-phosphates: V. low Low	Med. High
Sulfides: None Low	Med. High
	A
Date Analized: 9-11-73 By: N.M.	w. Kungan
N.M.	o.c.c.
Remarks: Top Blue Clay at 158'. Poor water zone.	

Well Ownership: BOBBY LEWIS	Well No. TW-17
Land Status: State Federal X Fee	
Well Location: Unit I , Section 27 , T 9 S - R 36 line with ranch house (SE).	E
Type Well:Test Well	Depth: 180 feet.
Sample Number: #37 Date Taken	9-10-73
Specific Conductance:m/_	
Total dissolved Solids:PPM.	•
Chlorides: 14270.0 PPM.	Lower Water Zone
Sulfates:PPM.	
Ortho-phosphates: V. low Low	led. ☐ High
Sulfides: None Low	<u>fed. ☐ High</u>
	The section of the se
Date Analized: 9-10-73 By: N.M.C	w. Rlingan
Remarks: Top Red Beds at 178'. Poor water zone.	

Well Ownership: Bobby Lewis	Well No.
Land Status: State Federal	
Well Location: Unit J, Section 29, T 9 S Pasture" Appear 2 2/4 miles UNIV of the words b	•
Pasture" Approx. 2 3/4 miles WNW of the ranch h	
Type Well: Windmill	feet.
Well Use: Stock	
Sample Number: # 6 Date	Taken: 8-23-73
Specific Conductance:	
Total dissolved Solids:	PPM.
Chlorides: 82.0	PPM.
Sulfates:	PPM.
Ortho-phosphates: V. low Low	Med. High
Sulfides: X None Low	
	. •••• ••• •••
	7 / 0
Date Analized: $8-24-73$ By:	ohn W. Runyan N.M.O.C.C.
·	
Remarks: Mill was pumping when sample was taker	1.

Well Ownership: Bobby Lewis	Well No
Land Status: State Federal	Fee Fee
Well Location: Unit \underline{D} , Section $\underline{27}$, \underline{T}	S - R 36 E "North Pasture"
NW of ranch house across highway. Approx. 2	miles from house.
Type Well:Windmill	feet.
Well Use: Stock	•
Sample Number: # 5 Date	te Taken: 8-23-73
Specific Conductance:	_m/_
Total dissolved Solids:	PPM.
Chlorides: 64.0	_PPM.
Sulfates:	_ PPM.
Ortho-phosphates: V. low Lo	ow Med. High
Sulfides: None La	ow Med. High
:	
Date Analized: 8-24-73 By:	N.M.O.C.C. Rungan
Remarks: Mill pumping when sample was taken.	•

Well Ownership: Bobby Lewis Well No.
Land Status: State Federal Fee
Well Location: Unit J, Section 4, T 10 S - R 36 E "Steer Pasture",
Approx. 2½ miles southwest from ranch house
Type Well: Windmill Depth:feet.
Sample Number: # 4 Date Taken: 8-24-73
Specific Conductance:m/_
Total dissolved Solids:PPM.
Chlorides: 74.5 PPM.
Sulfates:PPM.
Ortho-phosphates: V. low Low Med. High
Sulfides: None Low Med. High
Date Analized: 8-24-73 By: John W. Runyan
N.M.O.C.C. N.M.O.C.C.
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Well Owners	hip: <u>Robby Le</u>	wis		Wel	1 No	
Land Status	: State	☐ Federal		Fee		
Well Location	on: Unit H, Sec	tion 35 , T	<u>9</u> s-	R <u>36</u> E	"Ranch Ho	ouse"
New well	just SW of house					
Type Well: _	Electric Pump			Depth	:feet	t.
Well Use:	House use.					· · · · · · · · · · · · · · · · · · ·
Sample Numbe	er:#3		Date 1	Taken:	8-23-73	
	Specific Conduct	ance:	m/	<u>'</u> ~		
	Total dissolved	Solids:	PF	?M.		
•	Chl	orides: 78	.1PI	PM•		
	Su	lfates:	P	PM.		
	Ortho-phosphates	: 🔀 <u>V. low</u>	Low	Med.	☐ <u>High</u>	
	Sulfides	None	Low	☐ <u>Med</u> .	High	
Date Analize	ed: <u>8-23-73</u>	E	By: Som	N.M.O.C.C	lunga	n/
Remarks:			-			
	1 9-1-73, Chlo		78.1 PPM.,	, No chang	e. Sampl	e # 36.
,						

Well Ownersh	nip: Bobby Lewis	Well No
Land Status:	: State Federa	. Fee
Well Locatio	on: Unit H, Section 35,	T 9 S - R 36 E "Ranch House"
Windmill -	Red Mill.	
		Depth: <u>170</u> feet.
Well Use:	Stock tank at house & yard	water
Sample Numbe	er:#2	Date Taken: 8-23-73
	Specific Conductance:	m/
	Total dissolved Solids:	PPM.
•	Chlorides:	1573.0 PPM.
•	Sulfates:	PPM.
	Ortho-phosphates: 🔯 V. low	Low Med. High
	Sulfides: 🔀 None	Low Med. High
	:	
Date Analize	ed: 8-23-73	By: John W. Runyan N.M.O.C.C.
Remarks:		
····		
		
	•	

Well Ownership: Bobby Lewis Well No	
Land Status: State Federal Tee	
Well Location: Unit H, Section 35, T 9 S - R 36 E "Ranch House"	
Type Well:Electric pump" Depth:feet.	
Well Use:House Use*	
Sample Number: # 1A Date Taken: 8-23-73	
Specific Conductance:m/_	
Total dissolved Solids:PPM.	
Chlorides: 1285.0 PPM.	
Sulfates:PPM.	
Ortho-phosphates: V. low Low Med. High	
Sulfides: Mone Low Med. High	
Date Analized: 8-23-73 By: John W. Runyan N.M.O.C.C.	
N.M.O.C.C.	
Remarks: * Used as house supply until it became contamiated.	
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Single Well	Bond	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										0	0		0	0
Blanket	Bond	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	000001	10000	100000	000001	000001	100000	100000	100000	100000	100000
Date	Resolved																		-	ļ					į						+											
OCD Action/Date and	Comments																																									
Operator's Proposed Action/Date and	Comments																																									
Federal	Minerals																																									
Surface			S	' P	S	S	S	1 P) P	S	3 P	s s	S	; P	S	S	S	8 P) P	S	J P	S	P	S S	SS	5 P	S	S	20 1	١ ٥	0 6	u 0	2 0	0 6	7	S	S	S	S	S	S) P
	W Depth	1	E 3038 S	E 3097 P	W 3062 S	W 3050 S	W 3070 S	W 3063 P	V 3096 P	W 3090 S	W 3068 P	W 3048 S	W 3053 S	W 3075 P	W 3053 S	E 3051 S	E 3050 S	E 3053 P	E 3070 P	E 3055 S	E 3060 P	E 3047 S	E 3094 P	W 3053 S	W 3068 S		_	4		W 3072 P	-		_	1	_		_	_	_	-	E 3048 S	W 3020 P
	IS FEW	-	+	JN 1330E	W0861 N	N 1980W	M0861 N	M099 N0	MO1 NC	M099 NC	M099 NC	M1861 NC	3N 2043W	M0861 NC	M0861 NC	30861 NC	3N 1980E	JON 1980E	7N 723E	3S 660E	3S 660E	30861 SC	-	3S 1980W	0S 1980W	\vdash				M099 S09	+	+	+	+	+	\dashv	-			-	_	M099 S0
OCD	Letter FNS	99	654N	1310N	N099	N099	N099	099	1310N	N0861	1980N	1980N	1980N	1980N	N0861	1980N	1980N	N0861	1897N	1980S	S0861	1980S	2630S	1980S	1880S	1650S	1980S	1980S	3300N	16508	2000	SUCC	000	0003	3308	S099	S099	1650S	1980S	1980S	1980S	1980S
Ŏ=		+-	1	-32E B	32E C	32E C	32E C	-32E D	-32E D	32E E	32E E	32E F	32E F	32E F	32E F	-32E G	-32E G	-32E G	-32E H	32E I	32E I	32E J	32E J	-32E K	-32E K	-32E K	32E L					-32E M		\neg	\neg		32E P	32E L	-32E K	32E J	32E I	32E L
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	:	API#	30-025-00138	30-025-00132	30-025-00134	30-025-00136	30-025-00137	30-025-00125	30-025-00126	30-025-00120	30-025-00121	30-025-00148	30-025-00147	30-025-00151	30-025-00153	30-025-00155	30-025-00156	30-025-00161	30-025-00162	30-025-00160	30-025-00167	30-025-00168	30-025-00145	30-025-00149	30-025-00152	30-025-00154	30-025-00163 HOBBS	30-025-00165 HOBBS	30-025-00169	30-025-00150 HOBBS	30-025-28581 F	30-025-08073 HOBBS	30-025-08078 HOBBS	30-025-08084 HOBBS	30-025-08077 HOBBS	30-025-08072 F	30-025-08083 HOBBS	30-025-08081 HOBBS	30-025-08079 HOBBS	30-025-08096 HOBBS	30-025-08092 HOBBS	30-025-00862 HOBBS	30-025-08097 I

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30-025-08093 HOBBS		03-1996	You	148869 SIERRA BLANCA OPERE-20-18S-32E	E-20-18S-32E E	N0861	M099 N	4007 F	F				100000	0
30-025-00860 HOBBS	S	12-1992	YOUNG UNIT #018	148869 SIERRA BLANCA OPERG-20-18S-32E	G-20-18S-32E G	2310N	N 2310E	4100 F	F				100000	0
30-025-08094 HOBBS	S	12-1992	YOUNG UNIT #019	148869 SIERRA BLANCA OPERH-20-18S-32E	H-20-18S-32E H	2310N	N 990E	4135 F	F				100000	0
30-025-08101 HOBBS	S	03-1998	YOUNG UNIT #021	148869 SIERRA BLANCA OPERJ-20-18S-32E	J-20-18S-32E J	S0861	S 1980E	4068 F	F				100000	0
30-025-08099 HOBBS	S	03-1998	YOUNG UNIT #022	148869 SIERRA BLANCA OPERK-20-18S-32E	K-20-18S-32E K	1980S	N0861 8	4013 F	EL.				100000	0
30-025-08100 HOBBS	S	O 03-1998	YOUNG UNIT #024	148869 SIERRA BLANCA OPERN-20-18S-32E	N-20-18S-32E N	S066	2310W		ш				100000	0
30-025-08091 HOBBS	S	12-1992	YOUNG UNIT #025	148869 SIERRA BLANCA OPERO-20-18S-32E	O-20-18S-32E O	S066		4100 F	Ľ.				100000	0
30-025-00875 HOBBS	S	12-1992	YOUNG UNIT #030	148869 SIERRA BLANCA OPERC-29-18S-32E C	C-29-18S-32E C	330N	V 1650W	4050 F	ഥ				100000	٥





