

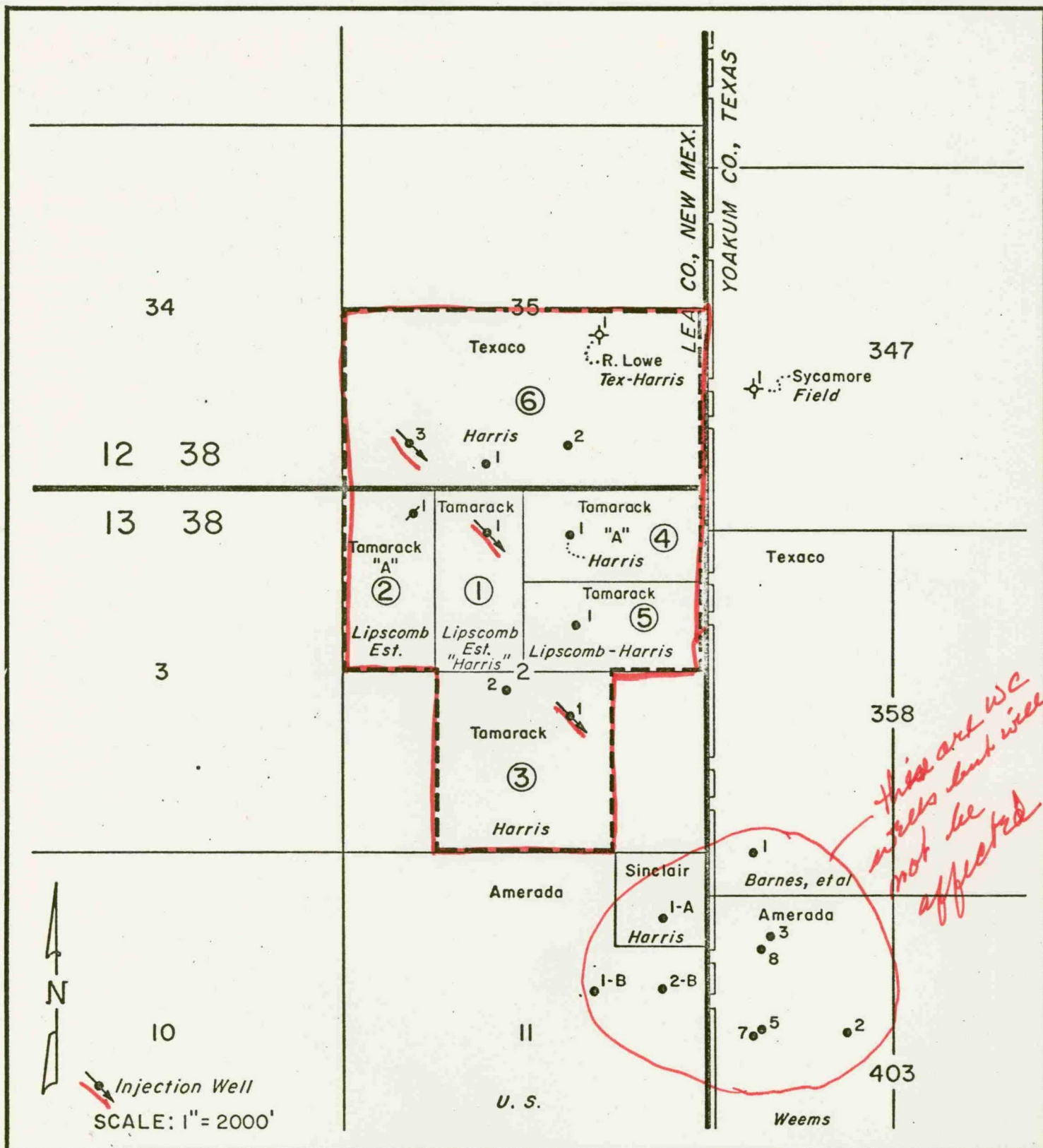


EXHIBIT 1

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Tamarack EXHIBIT NO. 3
CASE NO. 4959-4960

TO UNIT AGREEMENT
BRONCO (WOLFCAMP) UNIT

BRONCO (Wolfcamp) FIELD
LEA COUNTY, NEW MEXICO

Tamarack — No. 1
Harris

*pressure
gauge*

13 3/8" at 325'
with 260 sx.

8 5/8" at 4572'
with 200 sx.

inert substance

*this well
current prod
530 bbl
cumul. prod
173,000 bbls*

2 3/8" Plastic Lined Tubing

Set Packer at 9018'

Perfs. 9068'-9100'

P.B. 9154'

T.D. 9700'

5 1/2" at 9700'
with 370 sx.

EXHIBIT 2

INJECTION WELL

Tamarack

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BRONCO (WOLFCAMP) UNIT

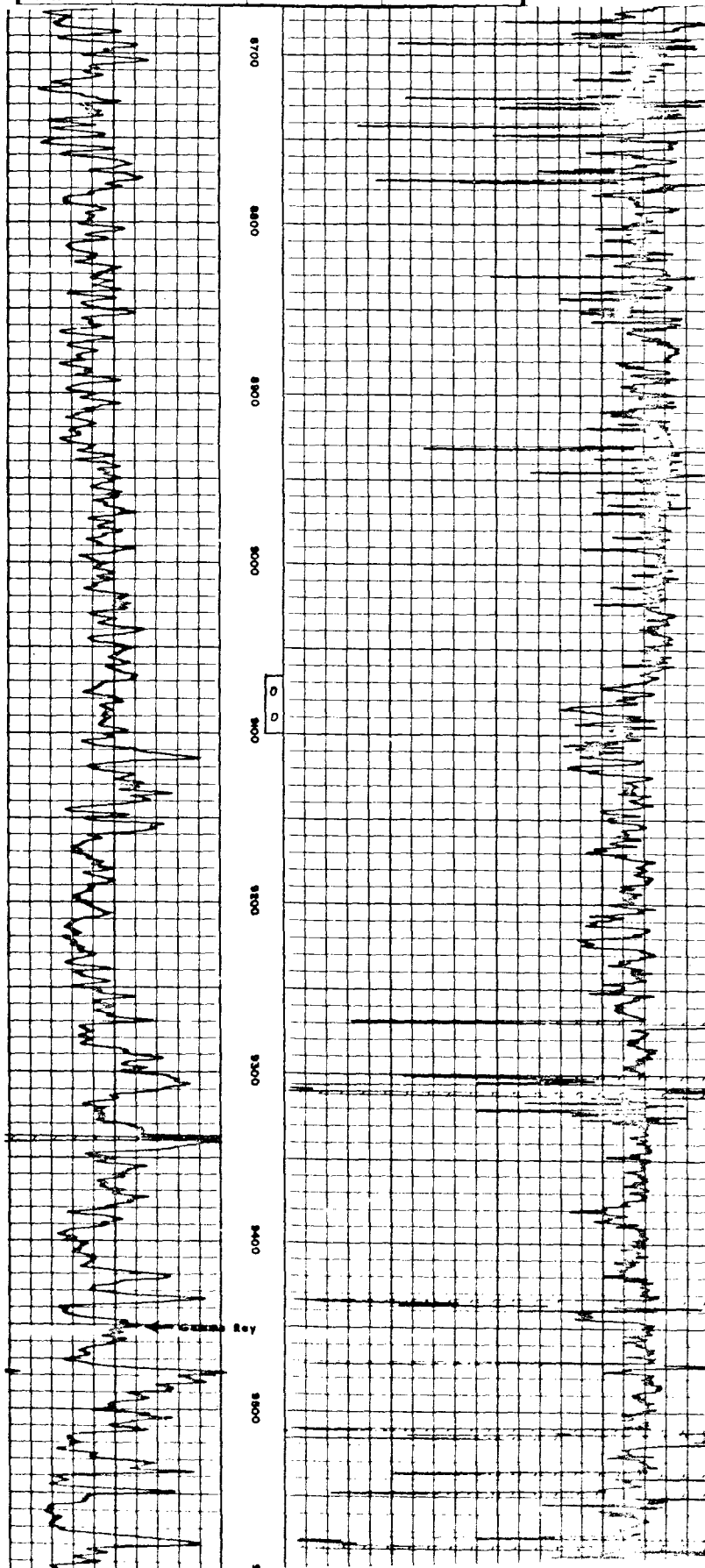
4959-4960

BRONCO (Wolfcamp) FIELD
LEA COUNTY, NEW MEXICO

SCHLUMBERGER

COUNTY LEA FIELD LOCATION BRONCO WELL HARRIS # 1 COMPANY JAMES G. BROWN AND ASSOCIATES	COMPANY JAMES G. BROWN	Other Surveys
	AND ASSOCIATES	ES. ML. F. T.
	WELL HARRIS # 1	Location of Well
	FIELD BRONCO	1815 FROM E/L 2110 FROM S/L
	LOCATION SEC. 2-135-38E	
COUNTY LEA	Elevation: K.B.: 3810 D.F.: 1809 or G.L.: 3799	
STATE NEW MEXICO		

Log Depths Measured From #8		11 Ft. above GL	
RUN No.	ONE		
Date	4-4-62		
First Reading	9696		
Last Reading	4580		
Feet Measured	5116		
Csg. Schlum.	4580		
Csg. Driller	4575		
Depth Reached	9703		
Bottom Driller	9700		
Mud Nat.	WEL. CAUSTIC SODA ASH DRISCOSE		
Dens. i Visc.	9.3 @ 75 °F	@	°F
Mud Resist.	16 @ 158 °F	@	°F
" pH	8.5 @ °F	@	°F
" Wtr. Loss	14.8 CC 30 min	CC 30 min	CC 30 min
" Rmf	28 @ 76 °F	@	°F
Bit Size	7 7/8"		
Spacing:			
T. R. I. R.	9696 To 8496	To	To
T. R. I. R.	8496 To CSG.	To	To
Opr. Rig Time			
Truck No.	3701-H0385		
Recorded by	OWEN BROWN		
Witness	WYNN		



Tamarack 5
4959-4960

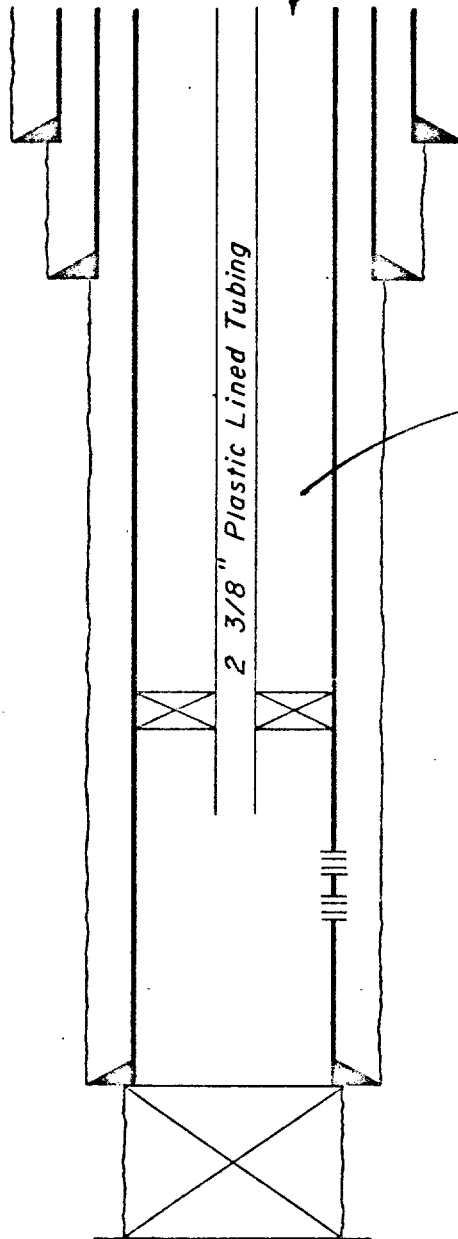
Tamarack - No. 1
Lipscomb Est.

13 3/8" at 363'
with 350 sx.

8 5/8" at 4575'
with 2400 sx.

*this well
currently
not prod
228000 bbls
cumulative*

5 1/2" at 9465'
with 200 sx.



gauge

inert fluid

Set Packer at 8997'

Perfs. 9047' - 64'

Perfs. 9072' - 90'

P. B. 9465'

T. D. 11,918'

EXHIBIT E

INJECTION WELL

BRONCO (WOLFCAMP) UNIT

BRONCO (Wolfcamp) FIELD

LEA COUNTY, NEW MEXICO.

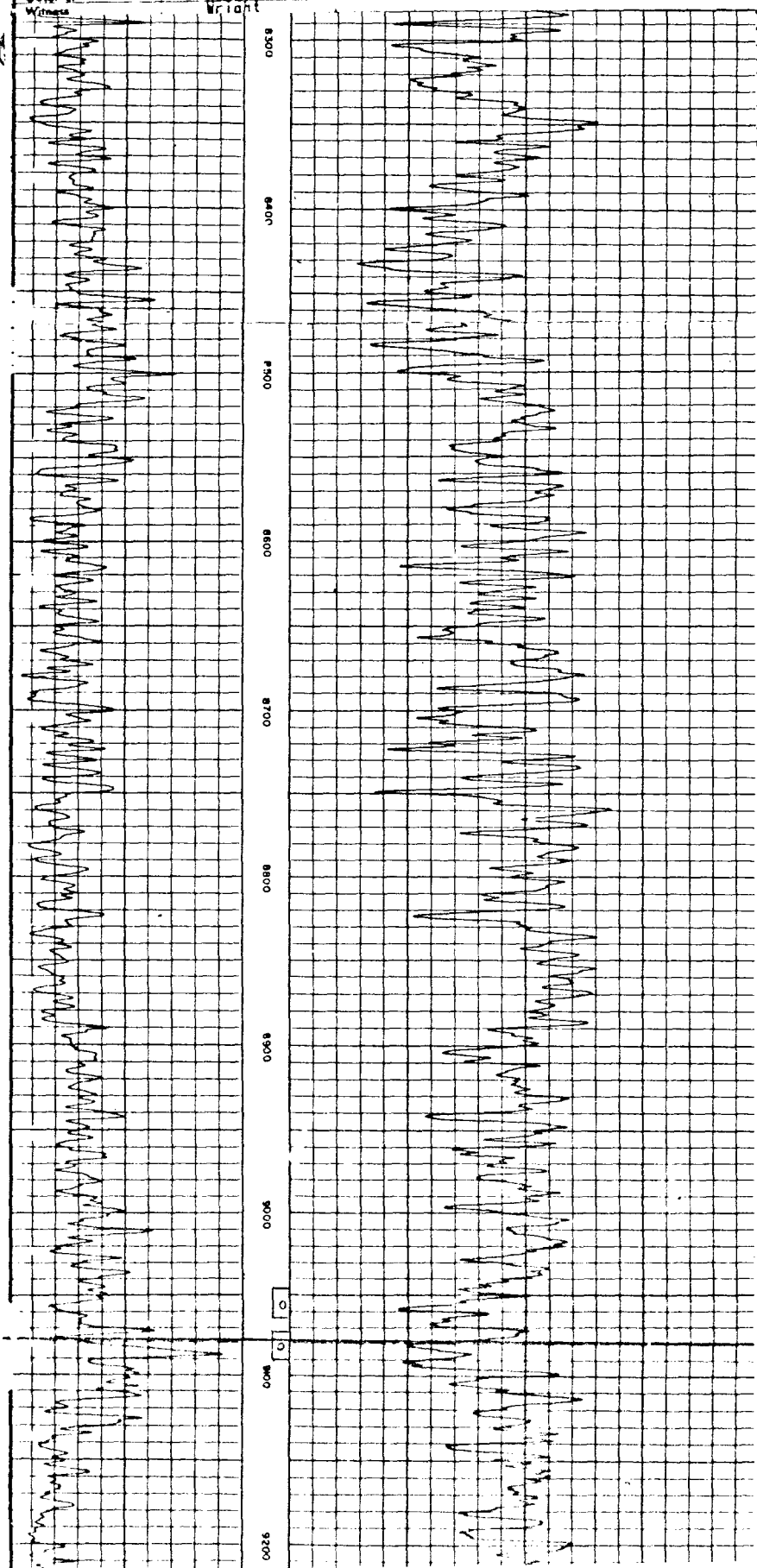
TAMARACK

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4959 - 4960

COUNTY LEA FIELD NO. LOCATION WELL COMPANY R.C. Lipscomb	COMPANY	R.C. LIPSCOMB	Other Surveys	ES
	WELL	HARRIS # 1	Location of Well	360' f N/L 1980' f W/L
	FIELD	WILDCAT	Elevation: D.F.	K.S. 3809
	LOCATION	SEC. 2-13S-30E	or G.L.	
	COUNTY	LEA	FILING No.	
STATE	NEW MEXICO			

Log Depths Measured From	KB 15.0	Ft. above	GL
RUN NO.	10-29-57		
Date	10-29-57		
First Reading	11922		
Last Reading	73		
Footage Measured	1849		
Max. Depth Reached	1923		
Bottom Driller	1918		
Maximum Temp. °F.	160		
Fluid Nature	Chem-Gel		
Fluid Level	73		
Casing Size	8.58 in.		
Casing Weight	lb. 0 to 4575		
Casing Size	in.		
Casing Weight	lb. to		
Bit Size	7 7/8 in. CSG to TD		
Bit Size	in. to		
No. Counters Used			
Type Equipment	GNAM-4		
Type Pencil	GNP-C		
Oper. Run Time	4 Hrs.		
Truck No.	1762-Hobbs		
Observer	Howe		
Witness	Wright		



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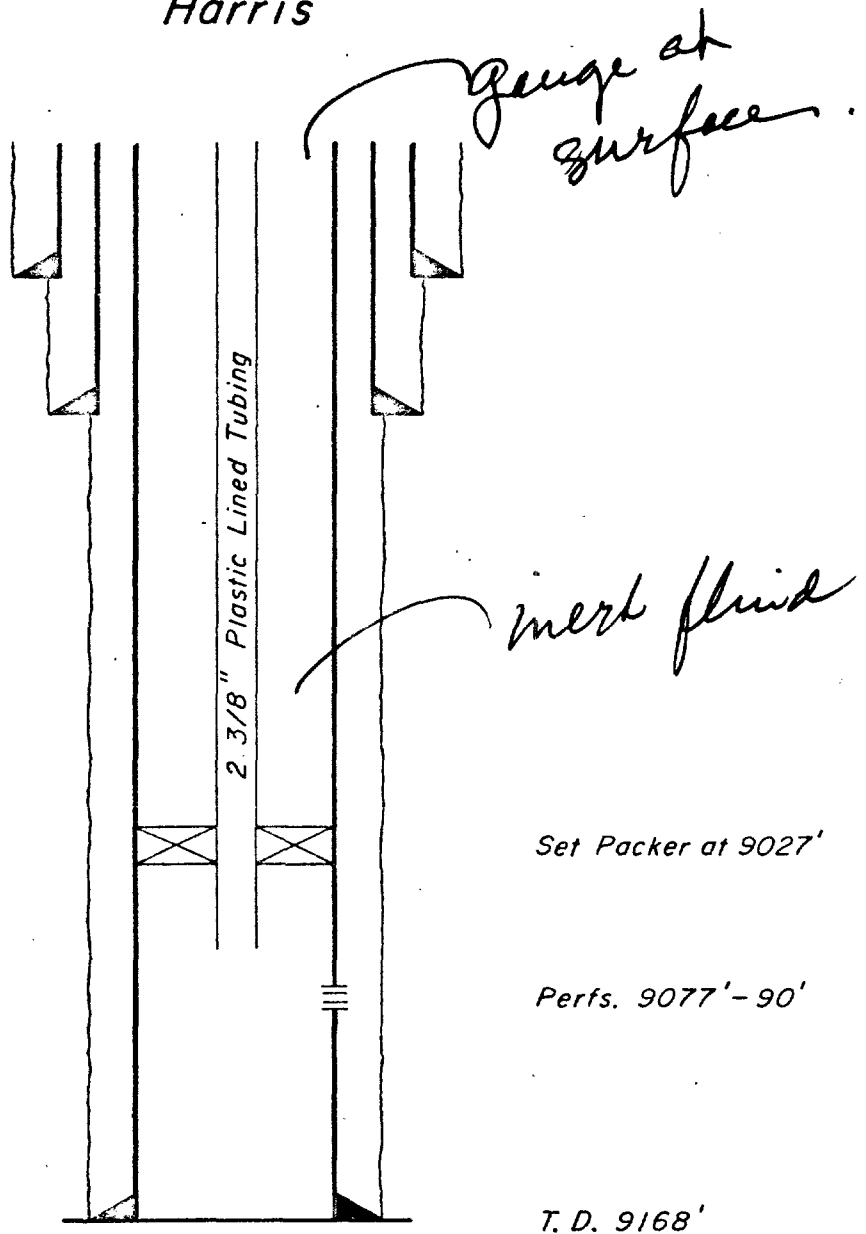
Texaco — No. 3
Harris

13 3/8" at 454'
with 450 sx.

8 5/8" at 4520'
with 1500 sx.

*SI since
1969
cum prod
53,000 bbls*

5 1/2" at 9168'
with 400 sx.



Set Packer at 9027'

Perfs. 9077' - 90'

T. D. 9168'

EXHIBIT +

INJECTION WELL

BRONCO (WOLFCAMP) UNIT

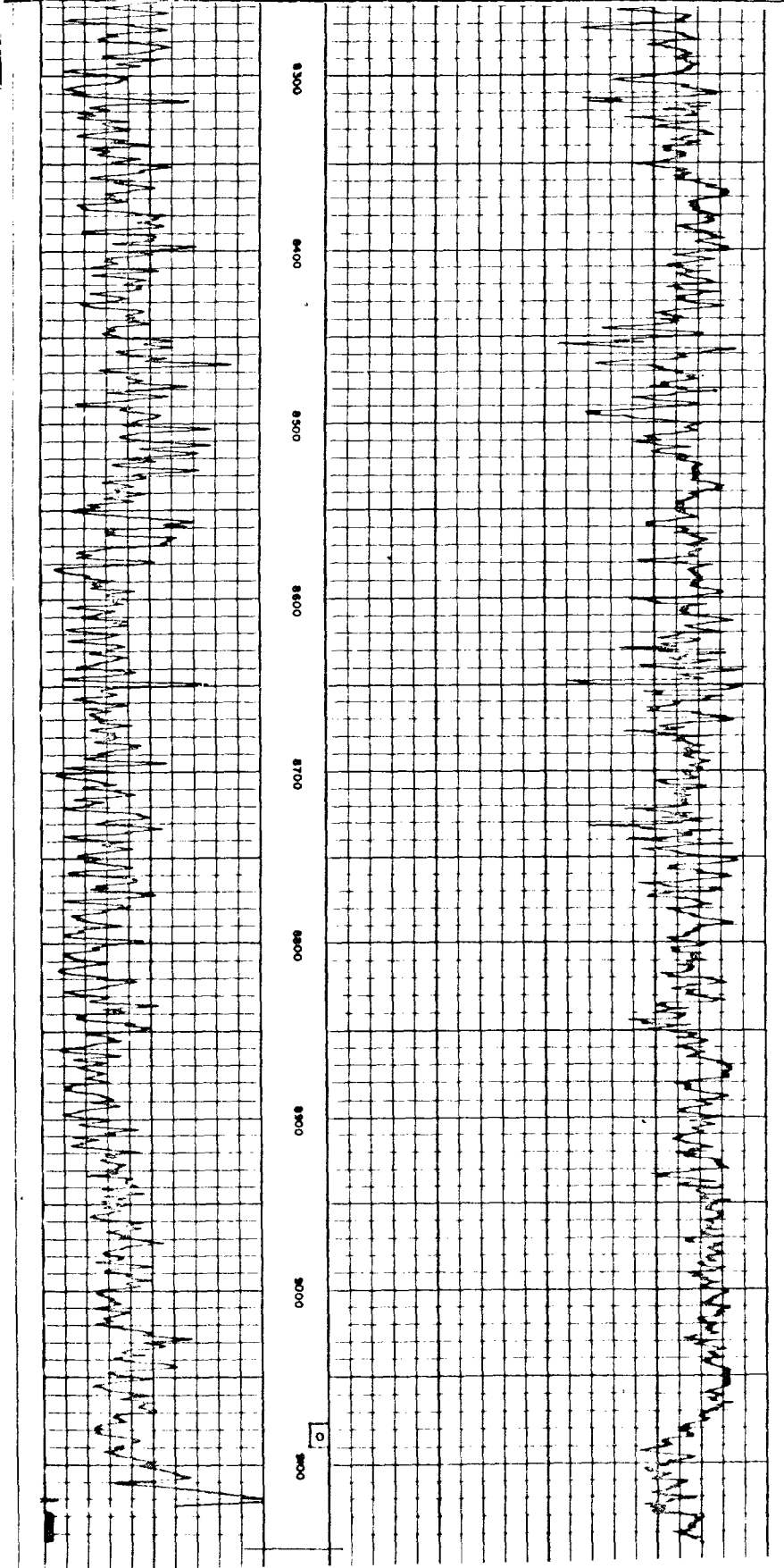
BRONCO (Wolfcamp) FIELD
LEA COUNTY, NEW MEXICO

TAMARACK

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WELL LOGGING WELL SERVING CORPORATION			
COUNTY LEA FIELD or LOCATION M. V. BRONCO WELL H. H. HARRIS #1 COMPANY WHITEHALL OIL CO.	COMPANY WHITEHALL OIL COMPANY		Other Surveys IES, ML
	WELL H. H. HARRIS #1		Location of Well 990' FWL 660' FSL
	FIELD M. V. BRONCO		
	LOCATION SEC. 35, 12S-38E		
	COUNTY LEA		Elevation: K.B.: D.F.: or G.L.: 3790
STATE NEW MEXICO			
Log Depths Measured From KB 14.5 Ft. above GL			
RUN No.			
Date 12-12-59			
First Reading 9145			
Last Reading 4512			
Feet Measured 4627			
Csg. Schlum. 4518			
Csg. Driller 4520			
Depth Reached 9148			
Bottom Driller 9150			
Mud Mat. CHEM. GEL			
Dens. Visc. 8.7 @ 44			
Mud Resist. 45 @ 90 °F @ °F @ °F			
" Res. BHT 26 @ 153 °F @ °F @ °F			
" pH 8.5 @ °F @ °F @ °F			
" Wtr. Loss 7.8 CC 30 min CC 30 min CC 30 min			
" Rmt 14 @ 153 °F @ °F @ °F			
Bit Size 7 7/8"			
Spans: 3' Csg. to TD To To To			
Opr. Rig Time 4 HRS			
Truck No. 254 LHA			
Recorded By 12-12-59			
Witness			



TAMARACK
4959-4960
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June 22, 1971

Mr. J. L. Davis
Enjay Chemical Company
P. O. Box 2100
Hobbs, New Mexico

Subject: Recommendations relative to analyses #671120 and #671121 (6-21-71),
Tamarack Oil's Wolfcamp water & Amerada-Hess's Devonian water.

Dear Mr. Davis:

The attached analytical study was primarily designed to establish compatibilities between these two waters. The interpretations of these results are as follows:

1. Neither of the individual waters show evidence of either calcium carbonate or calcium sulfate scaling tendencies. In like manner, any mixture of these waters should not have any problem in this regard.
2. It is noted that the Wolfcamp water contains a moderate amount of soluble iron and the Devonian water contains a mild amount of hydrogen sulfide. The mixing of these waters in equal quantities would result in the precipitation of essentially all the iron and sulfide from the waters. The equal mixture of these two waters would result in the precipitation of approximately 7.85 mg/l or 2.75 pounds of iron sulfide per 1,000 barrels of the mixed water. We generally classify this as a significant incompatibility, in that this would result in a water quality that would be undesirable for injection or disposal.
3. Other than the above item #2, we find no evidence of any significant detrimental condition resulting from the mixing of these two waters.

Yours very truly,

Waylan C. Martin

WCM/sb

cc: Mr. J. P. Kindle

TAMARACK

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