



2000-3571

Getty Oil Company

Central Exploration and Production Division

Oil Conservation Commission
State Of New Mexico
P.O. Box 1088
Santa Fe, New Mexico

Re: Myers Langlie Mattix Unit Expansion
Langlie Mattix Pool
Lea County, New Mexico

ILLEGIBLE

Gentlemen:

Under the provisions of Order No. R-4680, Getty Oil Company respectfully requests administrative approval to expand our Myers Langlie Mattix Unit waterflood project in the Langlie Mattix Pool, Lea County, New Mexico. [Redacted]

- (1) Getty Oil Company seeks authority to expand its project by injection of water into the Langlie Mattix through an additional twenty-nine (29) injection wells within the current Myers Langlie Mattix Unit boundary.
- (2) The expansion will require the conversion of seventeen (17) singly completed wells to water injection, those being:

Myers Langlie Mattix Unit

<u>Well No.</u>	<u>Unit</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>PPH</u>	<u>MO. 10</u>
5	A	30	23S	37E	3470	3500 - 3510
22	K	28	23S	37E	3325	3270 - 3284
30	K	30	23S	37E	3450	3517 - 3570
32	I	25	23S	37E	3400	3478 - 3480
75	E	32	23S	37E	3400	3425 - 3475
77	G	32	23S	37E	3375	3425 - 3484
84	H	34	23S	37E	3350	3420 - 3565
87	I	33	23S	37E	3300	3366 - 3598
93	K	32	23S	37E	3400	3400 - 3450
111	O	32	23S	37E	3300	3350 - 3550
117	M	34	23S	37E	3350	3435 - 3570
130	A	5	24S	37E	3420	3470 - 3580
163	I	4	24S	37E	3400	3446 - 3459
167	I	5	24S	37E	3420	3498 - 3583
181	M	4	24S	37E	3350	3409 - 3570
189	M	2	24S	37E	-	3400 - 3588
226	E	11	24S	37E	3350	3444 - 3560

- (3) The expansion will require drilling twelve (12) injection wells on undeveloped tracts, those being:

<u>Myers Langlie Mattix Unit</u> Well No.	<u>Unit</u>	<u>Location</u>		<u>Range</u>	<u>Per.</u>	<u>Res.</u>
		<u>Section</u>	<u>Township</u>			
15	G	30	23S	37E	3,400	3,400 - 3,400
41	O	30	23S	37E	3,400	3,400 - 3,400
59	A	31	23S	37E	3,400	3,400 - 3,400
81	G	33	23S	37E	3,400	3,400 - 3,400
126	A	4	24S	37E	3,400	3,400 - 3,400
128	C	4	24S	37E	3,400	3,400 - 3,400
148	G	4	24S	37E	3,400	3,400 - 3,400
165	K	4	24S	37E	3,400	3,400 - 3,400
183	O	4	24S	37E	3,400	3,400 - 3,400
185	M	3	24S	37E	3,400	3,400 - 3,400
204	C	7	24S	37E	3,400	3,400 - 3,400
212	G	7	24S	37E	3,400	3,400 - 3,400

- (4) Getty Oil Company seeks permission to inject water into the above 29 wells at a pressure not to exceed 1200 psig surface.

The proposed expansion will completely develop the Myers Langlie Mattix Unit on 80 acre five spot waterflood patterns. We estimate that an additional 3,360,000 barrels of oil reserves will be recovered as a result of this expansion.

The following exhibits are included:

- (1) Exhibit I is a plat showing the location of the proposed injection wells and the location of all other wells within a radius of two miles from said proposed injection wells and the formation from which said wells are producing or have produced. The plat also indicates lessees within a two mile radius.
- (2) Exhibit II is a tabular summary of all wells located within one-half mile of the proposed injection wells which penetrate the injection zone. The tabulation shows: casing diameters and depths, cement volumes used, known or calculated cement tops, completion intervals, and total depths.
- (3) Exhibit III is a type log of the area from Myers Langlie Mattix Unit Well No. 32. Tops are marked and the proposed injection interval is indicated.
- (4) Exhibit IV is downhole sketches of the proposed injection wells. The sketches show: the diameter and setting depths of all casing strings, the quantities used and tops of cement, the perforated or open hole intervals, the tubing strings, and the type and location of packers.
- (5) Exhibit V is downhole sketches of all plugged and abandoned wells within one-half mile radius of the proposed injection wells which penetrated the injection zone. The sketches show the size and location of all plugs and the date of abandonment.

- (6) Exhibit VI is a current analysis of the water which will be injected. The injection water is purchased from Getty's Jal Water System. Source of the water is the Capitan Reef. The produced water will be re-injected.
- (7) Exhibit VII is a list of the available surface instantaneous shut-in pressures after fracture treating Myers Langlie Mattix Unit wells. These pressures are based on a hydrostatic column of fresh water equal to a .433 psi/ft. gradient. As can be noted, these pressures vary. Much of this variation is probably due to pressure gauge differences. We therefore averaged all the pressures to account for the gauge differences and came up with an average of approximately 1200 psig. We believe water can be injected up to this surface pressure without causing formation fracturing.
- In the future, if the formation fracturing pressure is determined to be in excess of 1200 psig, supportive information will be submitted.

A copy of this application has been sent to the following offset operators by certified mail:

Amoco Production Company
Drawer A
Levelland, Texas 79336

Atlantic Richfield Company
Box 1710
Hobbs, New Mexico 88240

Tom Brown, Inc.
Box 2608
Midland, Texas 79701

Carter Foundation Producing Company
P.O. Box 900
Kermit, Texas 79745

Continental Oil Company
Box 460
Hobbs, New Mexico 88240

El Paso Natural Gas Company
600 Bld. of the Southwest
Midland, Texas 79701

Gulf Energy and Minerals - U.S.
P.O. Box 670
Hobbs, New Mexico 88240

John H. Hendrix Corporation
525 Midland Tower
Midland, Texas 79701

King, Warren & Dye
Box 1505
Midland, Texas 79701

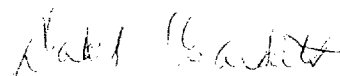
Pearson-Sibert Oil Company of Texas
901 W. Missouri
Midland, Texas 79701

Petroleum Corporation of Texas
Box 911
Breckenridge, Texas 76024

James L. Evans
P.O. Box 900
Padre Island, Texas 78597

Imperial American Management Company
507 Midland Savings Bld.
Midland, Texas 79701

Very truly yours,



Dale R. Crockett
Area Superintendent

*Copy like 900 psi in line
above 1200 psi requested.*

ELB/cap

Exhibit I
Two Mile Radius Map

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

Exhibit II
Tabular Summary Of All Wells Within
One-Half Mile Of The Proposed Injection
Wells Which Penetrate The Injection Zone

WELL NAME	WELL NO.	WELL LOCATION			CASING		DEPTH	CEMENTING		CEMENT TOP	TD	PAY INTERVAL
		UL.	SEC.	T	R	SIZE		NO.	SX.			
Carter Found. Prod. Co. - E. C. Hill "B" Fed.	4	G	34	23S	37E	13 3/8 9 5/8 7	329 2917 9510	300 1500 650		Surface Surface(Calc) 3804(Calc)	9827	5287'-5794' Blinebry
Carter Found. Prod. Co. - Bline-Cade Unit	16	G	34	23S	37E	7 5/8 4 1/2	336 3632	175 800		Surface(Calc) 1004(Calc)	3638	3393'-3555' Queen
Carter Found. Prod. Co. - Eva E. Blinebry	12	J	34	23S	37E	9 5/8 7	325 3600	300 800		Surface 117	3600	3404'-3572' Queen
Carter Found. Prod. Co. - E. C. Hill "B" Fed.	2	B	34	23S	37E	13 3/8 9 5/8 7	314 2928 9337	300 1500 675		Surface(Calc) Surface(Calc) 3412(Calc)	9371	5298'-5428' Teague-Blinebry
Carter Found. Prod. Co. - Eva E. Blinebry	18	B	34	23S	37E	13 3/8 7 5/8 5 1/2	322 2918 9582	300 800 500		Surface 375 5350	9737	3420'-3545' Queen
Carter Found. Prod. Co. - Mattix federal	2	C	3	24S	37E	13 3/8 7	302 3309	175 875		Surface Surface	3605	3432'-3605' Queen
Carter Found. Prod. Co. Mattix Federal	4	D	3	24S	37E	9 5/8 7	300 3678	300 1000		Surface Surface	3675	3501'-3612' Queen
Carter Found. Prod. Co. - Mattix Federal	5	E	3	24S	37E	9 5/8 7	300 3667	300 1000		Surface Surface	3667	3496'-3614' Queen

WELL NAME	WELL NO.	WELL LOCATION			CASING SIZE	DEPTH	CEMENTING NO. SX.	CEMENT TOP	TD	PAY INTERVAL
		UL.	SEC.	T						
Carter Found. Prod. Co. - Mattix Federal	3	J	3	24S	37E	13 3/8 7	312 3315	175 875	Surface Surface	3674 3497'-3655' Queen
Carter Found. Prod. Co. - Mattix Federal	6	Q	3	24S	37E	9 5/8 7	311 3670	300 1000	Surface Surface	3671 3496'-3646' Queen
Carter Found. Prod. Co. - Mattix Federal	1	F	3	24S	37E	8 3/4 7	1294 3407	300 400	Surface(Calc) Surface(Calc)	3913 3508'-3652' Queen
Atlantic Richfield Co. - Jim Camp "WN"	1	M	6	24S	37E	12 1/2 9 5/8 7	272 2780 3246	200 700 100	Surface(Calc) 119(Calc) 2368(Calc)	3656 3246'-3503' Queen
Pearson Sibert Oil Co. - Mattix Federal	1	A	10	24S	37E	9 5/8 5 1/2	326 3425	250 400	Surface 378(Calc)	3621 3507'-3621' Queen
Pearson Sibert Oil Co. - Fowler Hair	1	D	11	24S	37E	10 3/4 5 1/2	228 3508	250 400	Surface 461(Calc)	3681 3608'-3654' Queen
Continental Oil Company - Vaughn B-12	2	A	12	24S	37E	8 5/8 5 1/2	1250 3652	450 1225	Surface Surface	3652 3442'-3573' Queen

HALF MILE RADIUS WELLS

WELL NAME	WELL NO.	WELL LOCATION			CASING		CEMENTING NO. SX.	CEMENT TOP	TD	PAY INTERVAL
		UL.	SEC.	T	R	SIZE	DEPTH			
Carter Found. Prod. Co. - Eva E. Blinebry	11	P	34	23S	37E	8 5/8 5 1/2	355 3648	150 1450	Surface Surface	3650 3490'-3560' Queen
Carter Found. Prod. Co. - Bline-Cade Unit	14	I	34	23S	37E	7 5/8 4 1/2	337 3690	150 800	Surface(Calc) Surface(Calc)	3660 3396'-3564' Queen
Carter Found. Prod. Co. - Bline-Cade Unit	17	P	34	23S	37E	7 5/8 4 1/2	355 3617	175 800	Surface 350'	3625 3412'-3571' Queen
Carter Found. Prod. Co. - E. C. Hill "B" Fed.	1	A	34	23S	37E	13 3/8 9 5/8 7	322 2999 7104	300 1400 500	Surface(Calc) Surface(Calc) 2715(Calc)	7484 5312'-5789' Teague-Blinebry
Carter Found. Prod. Co. - E. C. Hill "B" Fed.	2	H	34	23S	37E	13 3/8 9 5/8 7	324 2914 7174	300 1450 500	Surface(Calc) Surface(Calc) 2785(Calc)	7331 5290'-5780' Teague-Blinebry
Carter Found. Prod. Co. - E. C. Hill "B" Fed.	3	B	34	23S	37E	13 3/8 9 5/8 7	314 2928 9337	300 1500 675	Surface(Calc) Surface(Calc) 3412(Calc)	9371 5298'-5428' Teague-Blinebry
Carter Found. Prod. Co. - E. C. Hill "M"	1	H	34	23S	37E	13 3/8 9 5/8 7	331 2919 9100	300 1400 650	Surface(Calc) Surface(Calc) 3394(Calc)	9290 9110'-9290' Teague-McKee (Simpson)
Carter Found. Prod. Co. - E. C. Hill "M"	4	A	34	23S	37E	13 3/8 9 5/8 7	323 2902 9399	300 2000 265	Surface(Calc) Surface(Calc) 7072(Calc)	9400 9120'-9310' Teague-McKee (Simpson)

HALF MILE RADIUS WELLS

WELL NAME	WELL NO.	WELL LOCATION			CASING		CEMENTING NO. SX.	CEMENT TOP	TD	PAY INTERVAL
		UL.	SEC.	T	SIZE	DEPTH				
Imperial Management Co. - Fanning "A"	1	B	33	23S	37E	9 5/8 7	425 550	Surface 1522(Calc)	6350	5741'-5923' Teague-Blinebry
Imperial Management Co. - Fanning "B"	1	A	33	23S	37E	9 5/8 7	370 500	Surface 1960(Calc)	6287	5405'-5883' Teague-Blinebry 6111'-6268' Imperial Tubb- Drinkard
James L. Evans - Fanning	6	H	33	23S	37E	8 5/8 5 1/2	460 500	Surface 1892(Calc)	5700	5410'-5630' Teague-Blinebry
Carter Found. Prod. Co. - Eva E. Blinebry	1	I	34	23S	37E	13 3/8 7	175 800	Surface 150	3562	3429'-3528' Queen
Carter Found. Prod. Co. - Eva E. Blinebry	2	O	34	23S	37E	13 3/8 7	175 850	Surface Surface	3536	3410'-3534' Queen
Carter Found. Prod. Co. - Eva E. Blinebry	3	P	34	23S	37E	13 3/8 7	175 850	Surface Surface	3533	3406'-3533' Queen
Carter Found. Prod. Co. - Eva E. Blinebry	7	H	34	23S	37E	13 3/8 7	175 875	Surface Surface	3554	3485'-3554' Queen
Carter Found. Prod. Co. - Eva E. Blinebry	8	A	34	23S	37E	13 3/8 7	200 875	Surface Surface	3538	3418'-3505' Queen

WELL NAME	WELL NO.	WELL LOCATION			CASING		CEMENTING NO. SX.	CEMENT TOP	TD	PAY INTERVAL
		UL.	SEC.	T	R	SIZE	DEPTH			
Petroleum Corporation of Texas -Lankford	1	G	25	23S	36E	13 8 5/8 5 1/2	60 1195 3460	75 700 200	Surface(Calc) Surface(Calc) 1937(Calc)	3637 2955'-3190 Yates
John H. Hendrix - Steeler	1	O	19	23S	37E	8 5/8 5 1/2	367 3689	250 235	Surface 1899(Calc)	3700 3362'-3625' Queen
Gulf Oil Corporation - M. K. Stewart	3	M	28	23S	37E	8 5/8 5 1/2	892 6294	350 510	Surface 2478(Calc)	6300 5426'-5778' Teague-Blinebry
Gulf Oil Corporation - M. K. Stewart	4	I	28	23S	37E	8 5/8 5 1/2	891 6275	340 510	Surface 2390(Calc)	6277 5408'-5766' Teague-Blinebry
Gulf Oil Corporation - M. K. Stewart	5	J	28	23S	37E	8 5/8 5 1/2	907 5897	350 430	Surface 2622(Calc)	5900 5425'-5784 Teague-Blinebry
Gulf Oil Corporation - C. E. La Munyon	32	C	28	23S	37E	8 5/8 5 1/2	884 6300	340 500	Surface 2492(Calc)	6308 5447'-5772 Teague-Blinebry
Gulf Oil Corporation - C. E. La Munyon	33	G	28	23S	37E	8 5/8 5 1/2	888 6287	350 510	Surface 2403(Calc)	6300 5456'-5826' Teague-Blinebry
Gulf Oil Corporation - C. E. La Munyon	38	F	28	23S	37E	8 5/8 5 1/2	912 5899	350 440	Surface 2548(Calc)	5900 5418'-5656' Teague-Blinebry
Tom Brown, Inc. La Munyon Fed.	1	E	28	23S	37E	8 5/8 5 1/2	317 3652	150 200	Surface 2560	3652 3568'-3652' Queen

HALF MILE RADIUS WELLS

WELL NAME	WELL NO.	WELL LOCATION			CASING		CEMENTING NO. SX.	CEMENT TOP	TD	PAY INTERVAL
		UL.	SEC.	T	SIZE	DEPTH				
Myers Langlie Mattix Unit	225	H	10	24S	37E	10 3/4 5 1/2	210 3396	210 525	Surface(Calc) Surface(Calc)	3625 3396'-3625'
Myers Langlie Mattix Unit	235	I	7	24S	37E	9 5/8 7	1210 3410	300 300	70(Calc) 777(Calc)	3570 3410'-3570
Myers Langlie Mattix Unit	236	J	7	24S	37E	9 5/8 7	1205 3419	300 200	65(Calc) 1663(Calc)	3585 3419'-3585'
Myers Langlie Mattix Unit	246	O	7	24S	37E	9 5/8 7	1225 3407	300 300	85(Calc) 774(Calc)	3595 3407'-3595'

WELL NAME	WELL NO.	WELL LOCATION			CASING		CEMENTING NO. SX.	CEMENT TOP	TD	PAY INTERVAL
		UL.	SEC.	T	R	SIZE	DEPTH			
Myers Langlie Mattix Unit	190	N	2	24S	37E	8 5/8 5 1/2	1150 3500	450 200	Surface 2076(Calc)	3600 3500'-3600
Myers Langlie Mattix Unit	192	C	10	24S	37E	8 5/8 5 1/2	258 3347	200 800	Surface Surface	3652 3347'-3652'
Myers Langlie Mattix Unit	194	A	9	24S	37E	10 3/4 5 1/2	227 3605	200 300	Surface(Calc) 1575(Calc)	3605 3505'-3554'
Myers Langlie Mattix Unit	195	B	9	24S	37E	8 5/8 5 1/2 DV @ 1165	265 3519	150 200 150	67'(Calc) 1995(Calc) Surface(Calc)	3608 3519'-3608'
Myers Langlie Mattix Unit	196	C	9	24S	37E	8 5/8 5 1/2	260 3525	150 200	Surface(Calc) 2001(Calc)	3595 3525'-3595'
Myers Langlie Mattix Unit	198	A	8	24S	37E	8 5/8 5 1/2	282 3398	225 300	Surface(Calc) 1113(Calc)	3686 3398'-3686'
Myers Langlie Mattix Unit	199	B	8	24S	37E	8 5/8 5 1/2	286 3390	225 300	Surface 1105(Calc)	3561 3390'-3561'
Myers Langlie Mattix Unit	202	A	7	24S	37E	8 5/8 4 1/2	360 3671	225 350	Surface 1005(Calc)	3671 3446'-3600'
Myers Langlie Mattix Unit	203	B	7	24S	37E	8 5/8 4 1/2	354 3703	225 1510	Surface 720	3705 3423'-3601'
Myers Langlie Mattix Unit	210	E	7	24S	37E	13 8 5/8 5 1/2	306 2748 3480	300 600 445	Surface 2748(Calc) Surface	3595 3480'-3595'

WELL NAME	WELL NO.	WELL LOCATION			CASING		CEMENTING NO. SX.	CEMENT TOP	TD	PAY INTERVAL
		UL.	SEC.	T	R	SIZE	DEPTH			
Myers Langlie Mattix Unit	211	F	7	24S	37E	13 9 5/8 7	295 1240 3398	300 425 925	Surface(Calc) Surface Surface	3592 3520'-3592
Myers Langlie Mattix Unit	213	H	7	24S	37E	13 3/8 9 5/8 7	328 1248 3400	300 405 475	Surface(Calc) Surface(Calc) 1936	3574 3400'-3574
Myers Langlie Mattix Unit	214	E	8	24S	37E	10 3/4 5 1/2	323 3460	200 300	Surface(Calc) 1175(Calc)	3600 3460'-3600
Myers Langlie Mattix Unit	217	H	8	24S	37E	8 5/8 5 1/2 4" liner	1198 2638 2530-3532	625 600 100	Surface(Calc) Surface(Calc) 2530	3580 3410'-3580
Myers Langlie Mattix Unit	218	H	9	24S	37E	13 8 5/8 7 4" liner	239 1285 3143 2928-3560	200 200 150 200	Surface(Calc) 247(Calc) 1826(Calc) 3066	3560 3412'-3550
Myers Langlie Mattix Unit	219	F	9	24S	37E	10 3/4 5 1/2	258 3138	300 350	Surface 472(Calc)	3640 3138'-3545
Myers Langlie Mattix Unit	222	E	10	24S	37E	10 3/4 7	255 3367	250 1100	Surface 2090	3640 3367'-3640
Myers Langlie Mattix Unit	224	G	10	24S	37E	8 1/4 5 1/2 4" liner	510 3311 3145-3672	270 750 400	Surface Surface(Calc) 3145(Calc)	3684 3530'-3602

HALF MILE RADIUS WELLS

WELL NAME	WELL NO.	WELL LOCATION			CASING		CEMENTING NO. SX.	CEMENT TOP	TD	PAY INTERVAL
		UL.	SEC.	T	R	SIZE	DEPTH			
Myers Langlie Mattix Unit	154	E	2	24S	37E	8 5/8 5 1/2	363 3399	250 1250	Surface Surface	3640 3399'-3640'
Myers Langlie Mattix Unit	157	K	2	24S	37E	8 5/8 5 1/2	389 3438	250 1300	Surface Surface	3664 3438'-3664'
Myers Langlie Mattix Unit	158	L	2	24S	37E	8 5/8 5 1/2	367 3440	250 1250	Surface Surface	3596 3440'-3596'
Myers Langlie Mattix Unit	159	I	2	24S	37E	10 3/4 7	261 3325	150 800	Surface Surface	3619 3325'-3619'
Myers Langlie Mattix Unit	169	K	5	24S	37E	8 5/8 5 1/2	325 3597	300 300	Surface 2410	3597 3464'-3588'
Myers Langlie Mattix Unit	173	K	6	24S	37E	9 5/8 7	555 3464	400 331	Surface Surface	3620 3467'-3620'
Myers Langlie Mattix Unit	174	N	6	24S	37E	9 5/8 7	363 3419	400 525	Surface Surface	3625 3419'-3625'
Myers Langlie Mattix Unit	175	O	6	24S	37E	8 5/8 5 1/2	349 3620	300 250	Surface 2570	3620 3477'-3617'
Myers Langlie Mattix Unit	179	O	5	24S	37E	9 5/8 7	1180 3455	750 450	Surface(Calc) 1970	3570 3401'-3570'
Myers Langlie Mattix Unit	180	P	5	24S	37E	15 1/2 8 1/4 7	23 1298 3446	20 434 100	Surface Surface 2568(Calc)	3647 3446'-3644'

WELL NAME	WELL NO.	WELL LOCATION			CASING		CEMENTING NO. SX.	CEMENT TOP	TD	PAY INTERVAL
		UL.	SEC.	T	R	SIZE	DEPTH			
Myers Langlie Mattix Unit	116	P	33	23S	37E	8 5/8 5 1/2	297 3425	200 300	Surface 638(Calc)	3598 3428'-3598' 2 stage
Myers Langlie Mattix Unit	118	N	34	23S	37E	10 3/4 5 1/2	295 3306	150 400	Surface Surface	3570 3454'-3538'
Myers Langlie Mattix Unit	127	B	4	24S	37E	13 8 5/8 7	416 1243 3349	50 100 125	350(Calc) 298(Calc) 1025(Calc)	3620 3349'-3620'
Myers Langlie Mattix Unit	129	D	4	24S	37E	7 5/8 4 1/2	408 3680	300 400	Surface Surface	3680 3498'-3597
Myers Langlie Mattix Unit	132	C	5	24S	37E	8 5/8 4 1/2	352 3734	225 335	Surface 1738(Calc)	3734 3430'-3694'
Myers Langlie Mattix Unit	144	G	5	24S	37E	7 5/8 4 1/2	1186 3687	480 500	Surface 537(Calc)	3687 3410'-3542
Myers Langlie Mattix Unit	145	H	5	24S	37E	13 10 3/4 8 5/8 5 1/2	174 593 1289 3430	85 Mud 200 200	Surface Not Cemented Surface Surface	3588 3410'-3588'
Myers Langlie Mattix Unit	146	E	6	24S	37E	8 5/8 5 1/2	1341 3400	400 100	Surface(Calc) 1819(Calc)	3590 3400'-3547'
Myers Langlie Mattix Unit	149	H	5	24S	37E	12 1/2 8 5/8 7	201 1250 3459	150 300 100	Surface Surface(Calc) 2561(Calc)	3701 3459'-3665'

HALF MILE RADIUS WELLS											
WELL NAME	WELL NO.	WELL LOCATION			CASING		CEMENTING NO. SX.	CEMENT TOP	TD	PAY INTERVAL	
		UL.	SEC.	T	R	SIZE	DEPTH				
Myers Langlie Mattix Unit	89		K	33	23S	37E	10 1/4 5 1/2	233 3640	150 300	Surface(Calc) 1355(Calc)	3640 3503'-3626'
Myers Langlie Mattix Unit	91		I	32	23S	37E	8 5/8 5 1/2	306 3600	225 325	Surface 2393	3692 3413'-3690'
Myers Langlie Mattix Unit	94		L	32	23S	37E	7 5/8 4 1/2	266 3720	180 200	Surface 1809	3720 3537'-3603'
Myers Langlie Mattix Unit	95		I	32	23S	37E	8 5/8 5 1/2	1173 3663	400 300	Surface 1377(Calc)	3663 3510'-3618'
Myers Langlie Mattix Unit	109		M	32	23S	37E	10 3/4 7 5/8 3 1/2	298 1184 3676	250 400 250	Surface Surface 1580(Calc)	3676 3598'-3506'
Myers Langlie Mattix Unit	112		P	32	23S	37E	9 5/8 7	303 3660	225 325	Surface 2067	3660 3420'-3590'
Myers Langlie Mattix Unit	113		M	33	23S	37E	8 5/8 5 1/2	236 3635	150 300	Surface 1350(Calc)	3685 3474'-3685'
Myers Langlie Mattix Unit	114		N	33	23S	37E	9 5/8 7	1420 3300	500 300	Surface(Calc) 667(Calc)	3600 3300'-3600
Myers Langlie Mattix Unit	115		O	33	23S	37E	12 1/2 8 5/8 5 1/2	249 2577 3375	250 700 100	13'(Calc) Surface(Calc) Surface(shot holes in csg. & circulated cement)	3623 3575'-3623'

HALF MILE RADIIUS WELLS

WELL NAME	WELL NO.	WELL LOCATION			CASING		CEMENTING NO. SX.	CEMENT TOP
		UL.	SEC.	T	R	SIZE	DEPTH	
yers Langlie Mattix Unit	73	G	31	23S	37E	7 5/8 5 1/2	1205 3480	500 600 Surface Surface
yers Langlie Mattix Unit	74	H	31	23S	37E	8 5/8 5 1/2	500 3708	225 1000 Surface Surface
yers Langlie Mattix Unit	78	H	32	23S	37E	13 10 3/4 7	191 230 3348	190 100 500 Surface Surface (Calc) Surface (Calc)
yers Langlie Mattix Unit	79	E	33	23S	37E	15 1/2 8 5/8 7 4 1/2 (1 inner 2989-3620)	214 1225 3350 400	150 100 200 400 Surface 280 (Calc) 124 (Calc) 2989
yers Langlie Mattix Unit	80	P	33	23S	37E	12 1/2 8 5/8 7	170 1342 3440	uncemented 25 600 1212 (Calc) Surface
yers Langlie Mattix Unit	83	E	34	23S	37E	8 5/8 5 1/2	330 3615	300 300 Surface 2230
yers Langlie Mattix Unit	85	K	34	23S	37E	8 5/8 5 1/2	350 3572	300 3572 Surface 2220
yers Langlie Mattix Unit	86	L	34	23S	37E	8 5/8 5 1/2	331 3595	300 300 Surface 2300
yers Langlie Mattix Unit	87	I	33	23S	37E	8 5/8 5 1/2	935 6017	650 560 Surface 2600
yers Langlie Mattix Unit	88	J	33	23S	37E	8 5/8 5 1/2	331 3595	300 300 Surface 2300

HALF MILE RADIIUS WELLS

WELL NAME	WELL NO.	WELL LOCATION			CASING		CEMENTING NO. SX.	CEMENT TOP	TD	PAY INTERVAL
		UL.	SEC.	T	R	SIZE	DEPTH			
Myers Langlie Mattix Unit	47	M	28	23S	37E	9 5/8 5 1/2	309 3650	200 300(Stg) Surface 413' 2043'	3655	3488'-3616' Stg. tool@1175' Upper 100 sxs Lower 200 sxs
Myers Langlie Mattix Unit	49	C	34	23S	37E	13 3/8 9 5/8 7	296 2857 9790	300 2500 660 Surface Surface 3996(Calc.)	9812 PB 3550	3400'-3550' (7" cut&puiled from 3875'-plug- ged to 3500'-No record of plug)
Myers Langlie Mattix Unit	50	D	34	23S	37E	8 5/8 5 1/2	322 3598	300 300 Surface 2200	3598	3426'-3528'
Myers Langlie Mattix Unit	51	A	33	23S	37E	10 3/4 7	265 3630	200 400 Surface 119(Calc.)	3630	3372'-3598'
Myers Langlie Mattix Unit	53	C	33	23S	37E	8 5/8 5 1/2	265 3649	200 400 Surface 603(Calc)	3649	3383'-3621
Myers Langlie Mattix Unit	55	A	32	23S	37E	8 5/8 4 1/2	319	250 3713 Surface 2150	3716	3472'-3655'
Myers Langlie Mattix Unit	56	B	32	23S	37E	8 5/8 5 1/2	333 3518	200 350 Surface 2250	3595	3422'-3522'
Myers Langlie Mattix Unit	57	C	32	23S	37E	8 5/8 5 1/2	1192 3423	400 200 Surface 1900(Calc.)		3423'-3564
Myers Langlie Mattix Unit	58	D	32	23S	37E	8 5/8 5 1/2	1200 3470	500 200 Surface 1847(Calc)	3623	3510'-3575
Myers Langlie Mattix Unit	63	A	36	23S	36E	8 5/8 5 1/2	307 3485	225 500 Surface 2200	3600	3485'-3600'

Half Mile Radius Wells											
Well Name	Well No.	Well Location			Casing		Cementing No. Sx.	Cement Top	TD	Pay Interval	
		UL	Sec.	T	R	Size	Depth				
Myers Langlie Mattix Unit	28	I	30	23S	37E	8 5/8 4 1/2	275 3800	150 400	Surface 1578 (Calc.)	3800	3456'-3596' (2-76 Sqz. holes in csq. 814'-909')
Myers Langlie Mattix Unit	31	L	30	23S	37E	10 3/4 7 5/8 5 1/2	250 1250 3523	200 400 500	Surface (Calc.) Surface (Calc.) 1000'	3759	3523'-3759'
Myers Langlie Mattix Unit	33	J	25	23S	36E	13 3/8 8 5/8 5 1/2	306 1214 3478	300 400 940	Surface Surface 450	3643'	3312'-3643
Myers Langlie Mattix Unit	34	K	25	23S	36E	13 3/8 9 5/8 7	300 1179 3434	300 450 980	Surface Surface 210'	3620	3422'-3475'
Myers Langlie Mattix Unit	37	O	25	23S	36E	10 3/4 7 5/8 5 1/2	295 1204 3478	200 500 800	Surface 250' 1240'	3602	3478'-3602
Myers Langlie Mattix Unit	38	P	25	23S	36E	10 3/4 7 5/8 5 1/2	298 1214 3489	200 500 900	Surface Surface Surface	3635	3508'-3635'
Myers Langlie Mattix Unit	39	M	30	23S	36E	8 5/8 5 1/2	1237 3485	500 600	Surface 600'	3650	3485'-3650'
Myers Langlie Mattix Unit	43	M	29	23S	37E	9 5/8 7	1272 3446	500 250	Surface 1251' (Calc.)	3663	3446'-3633
Myers Langlie Mattix Unit	44	N	29	23S	37E	9 5/8 7	1223 3409	500 300	Surface Surface	3630	3409'-3630'
Myers Langlie Mattix Unit	45	O	29	23S	37E	10 3/4 7	304 3403	150 350	Surface 330'	3625	3382'-3607

HALF MILE RADIUS WELLS											
WELL NAME	WELL NO.	WELL LOCATION				CASING		CEMENTING NO. SX.	CEMENT TOP	TD	PAY INTERVAL
		UL.	SEC.	T	R	SIZE	DEPTH				
Myers Langlie Mattix Unit	3	C	29	23S	37E	13 3/8 7 4 1/2	300 3470 3612	375 650 700	Surface Surface Surface	3615	3496'-3598'
Myers Langlie Mattix Unit	4	D	29	23S	37E	13 9 5/8 5 1/2	42 1190 3479	45 400 150	Surface 200' 2336 (Calc)	3620	2772'-3103' (Jalmat perfs- Langlie- Mattix TA)
Myers Langlie Mattix Unit	6	B	30	23S	37E	8 5/8 5 1/2	733 3476	300 200	Surface (Calc) 1952 (Calc)	3620	3476'-3620
Myers Langlie Mattix Unit	7	C	30	23S	37E	8 5/8 5 1/2	328 3678	300 310	Surface 1910 (Surv.)	3629	3558'-3586
Myers Langlie Mattix Unit	10	A	25	23S	37E	13 8 5/8 5 1/2	157 1210 3459	75 150 150	Surface 432 (Calc) 2317 (Calc)	3641	3459'-3641'
Myers Langlie Mattix Unit	13	E	30	23S	37E	8 5/8 5 1/2	330 2300	300 300	Surface 2300	3662	3554'-3628
Myers Langlie Mattix Unit	14	F	30	23S	37E	8 5/8 5 1/2	325 3651	300 300	Surface 2600	3651	3568'-3624'
Myers Langlie Mattix Unit	16	H	30	23S	37E	9 5/8 7	1147 3474	500 250	Surface	3696	3473'-3696'
Myers Langlie Mattix Unit	17	E	29	23S	37E	13 3/8 8 5/8 6 4 1/2	36 1136 3476 3232 3758	36 550 125 400	Surface Surface	3745	3640'-3724

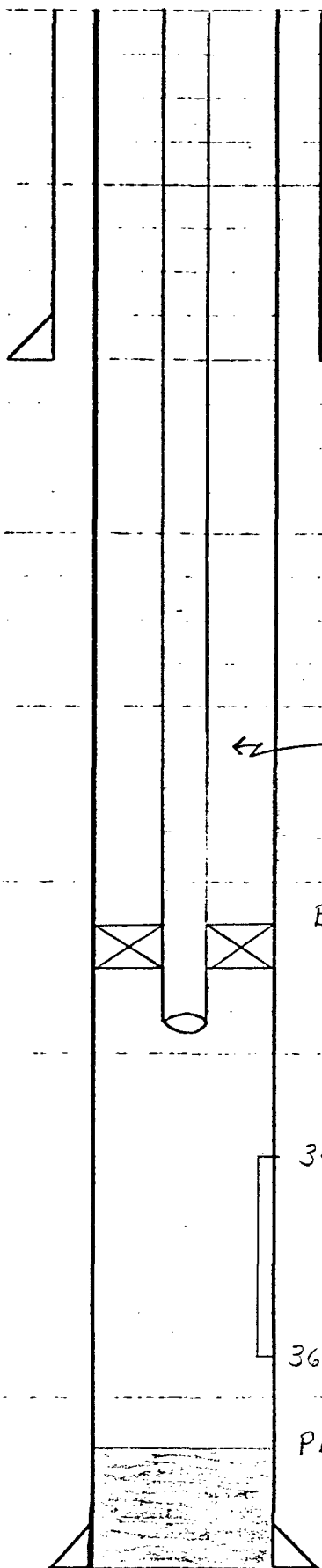
Exhibit III
Type Log Of The Area

Exihibit IV
Downhole Sketches Of Proposed Injection Wells

MYERS-LANGLIE MATTIX UNIT

WELL NO. 32

VL I, Sec. 25-T23S-R36E



8 5/8 24# K-55 CSG. Set @ 500'

Cemented w/300 SXS Cement TOP @ SURFACE

← 2 3/8 4.7# J-55 2nd EVE Internally Plastic Coated Tubing

BAKER AD-1 Packer Set @ 3400'

3478

Queen Perf.

3630

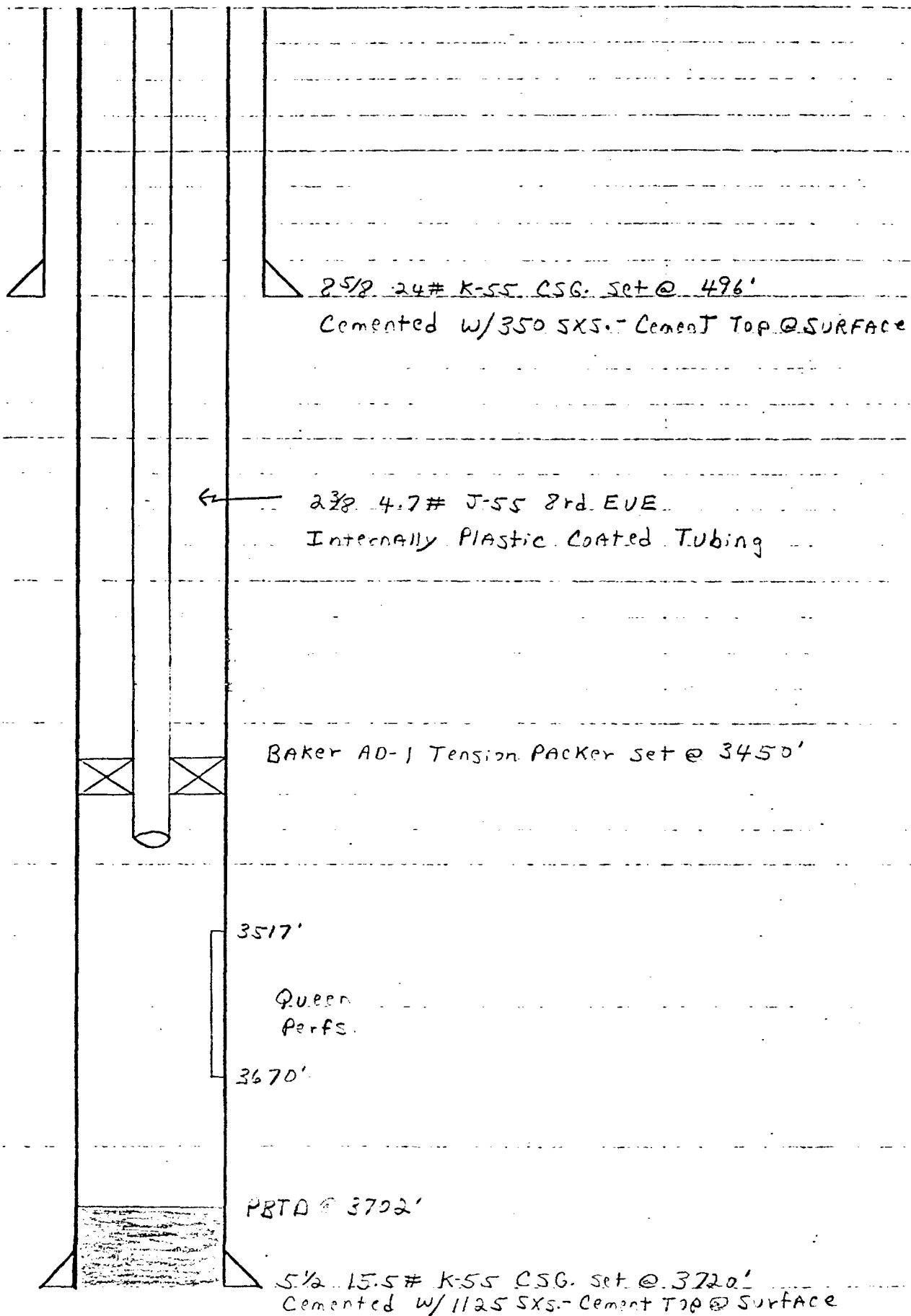
PBTD @ 3664'

5 1/2" 15.5# K-55 CSG. Set @ 3231'
Cemented w/1000 SXS Cement TOP @ SURFACE

MYERS-LANGLIE MATTIX UNIT

WELL NO. 30

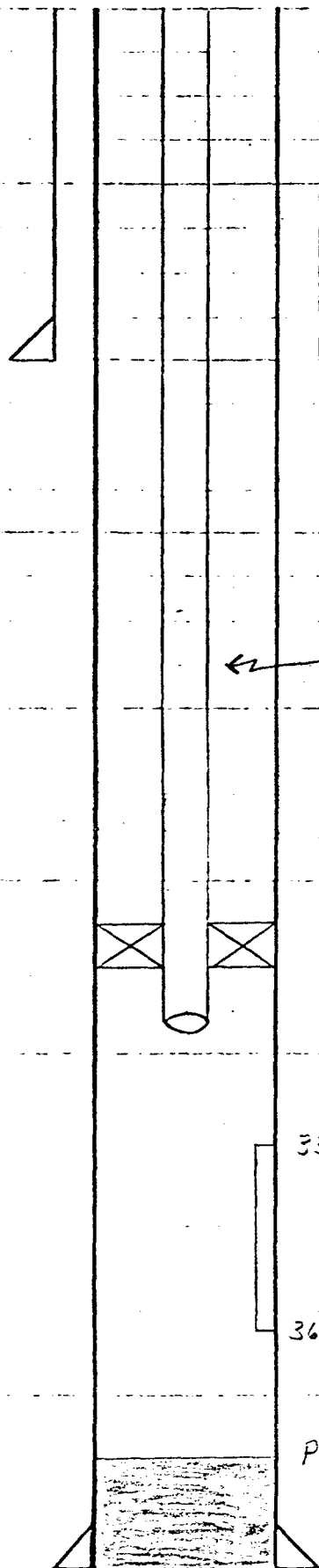
UL K, Sec. 30-T23S-R37E



MYERS-LANGLIE MATRIX UNIT

WELL NO. 22

ULK, Sec. 28-T23S-R37E



9 5/8 32# CSG. Set @ 298'

Cemented w/175 SXS.

Cement TOP @ SURFACE

← 2 3/8 4.7# J-55 2nd EUE

Internally Plastic Coated Tubing

BAKER AD-1 Tension Packer Set @ 3325'

3391'

Queen Perfs.

3644'

PBTC @ 3732'

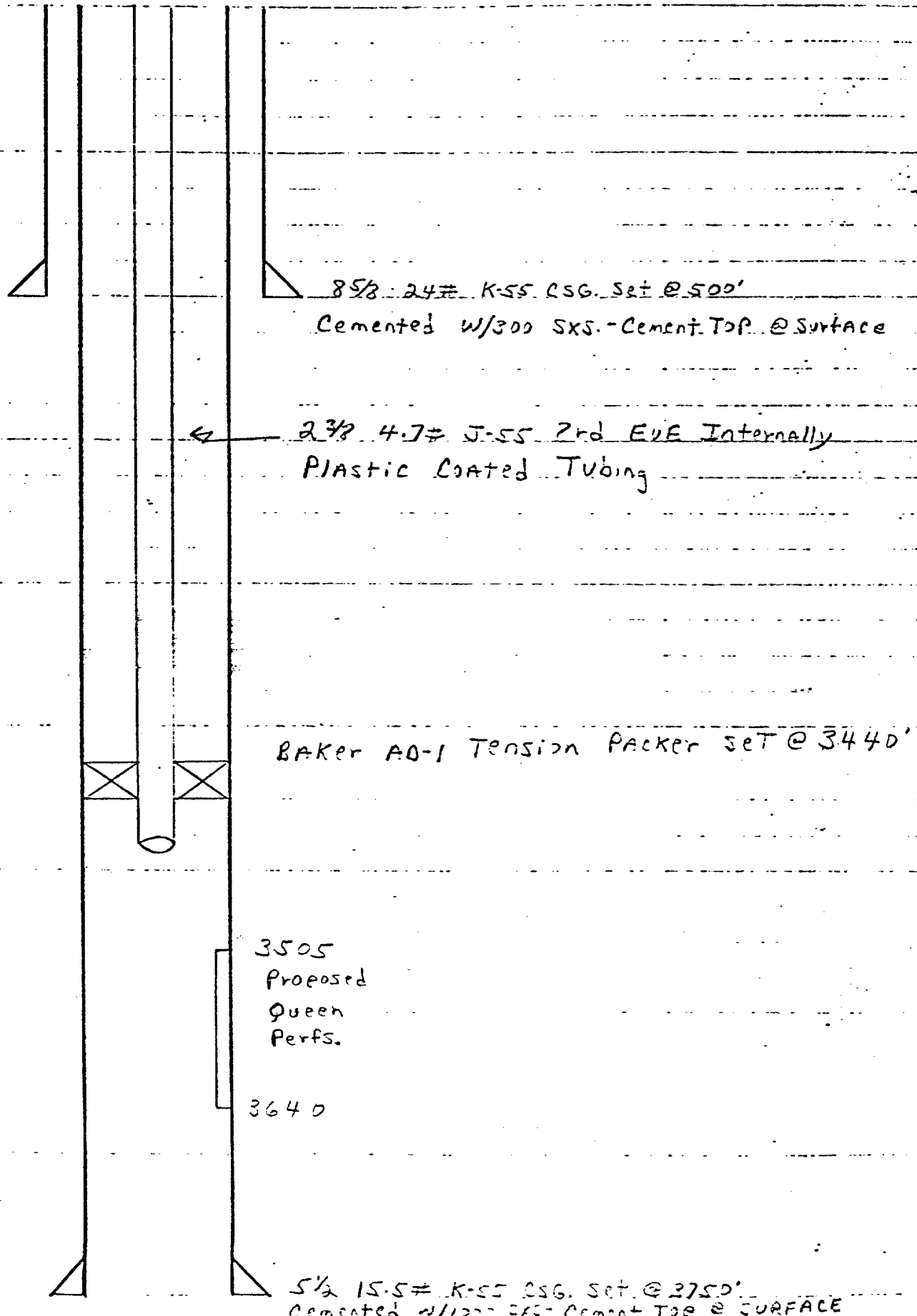
5 1/2" 14# CSG. Set @ 3762' Cemented w/600 SXS.
CALC. Cement TOP @ 800'

MYERS-LANGLIE MATTIX UNIT

WELL NO. 15

PROPOSED WELL TO BE DRILLED

UL G, Sec. 30-T.23S-R37E



MYERS LANGLEY MATTIX UNIT

WELL NO. 5

UL A, Sec. 30-T23S-R37E

10 3/4" 32# CSG. Set @ 700'
Cemented w/ 300 SXS.
Cement Top @ SURFACE

TOP 4 1/2" Liner @ 3210'

BAKER AD-1 Tension Packer set @ 3470'

7" 20# CSG. Set @ 3510' Cemented w/ 200 SXS.
CALC. Cement Top @ 1750'

3530'
Proposed
Queen
Perfs

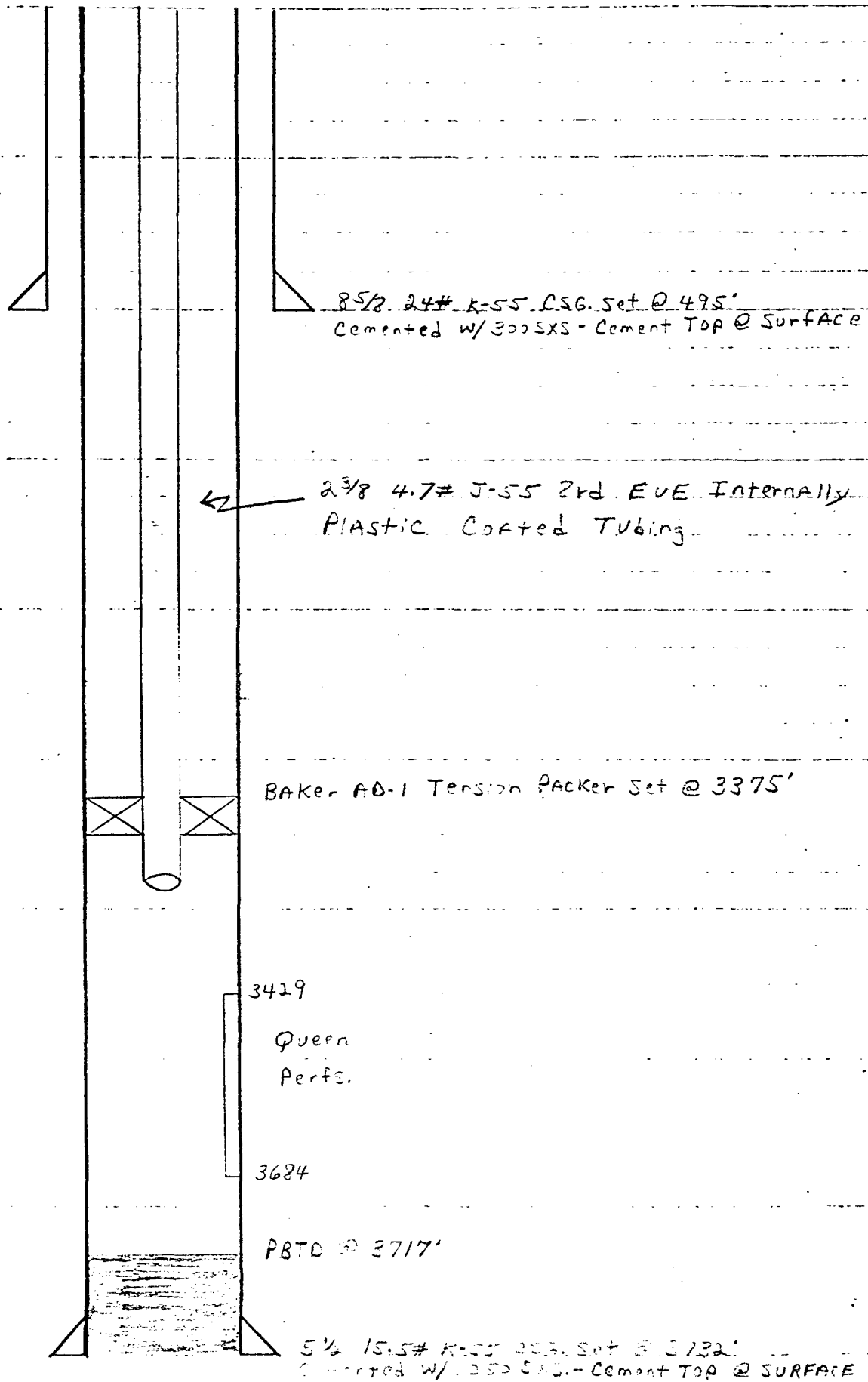
3640

4 1/2" 9.5# K-55 Liner Set @ 3750' (Proposed)
Cemented w/ 100 SXS - Cement Top @ 3210'

MYERS-LANGLIE MATTIX UNIT

WELL NO. 77

ULG, Sec. 32-T23S-R37E



8 5/8 24# K-55 Csg. Set @ 495'
Cemented w/ 300 SXS - Cement Top @ Surface

← 2 3/8 4.7# J-55 2nd EVE Internally
Plastic Coated Tubing

BAKER AD-1 Tension Packer Set @ 3375'

3429

Queen
Perfs.

3684

PBTD @ 3717'

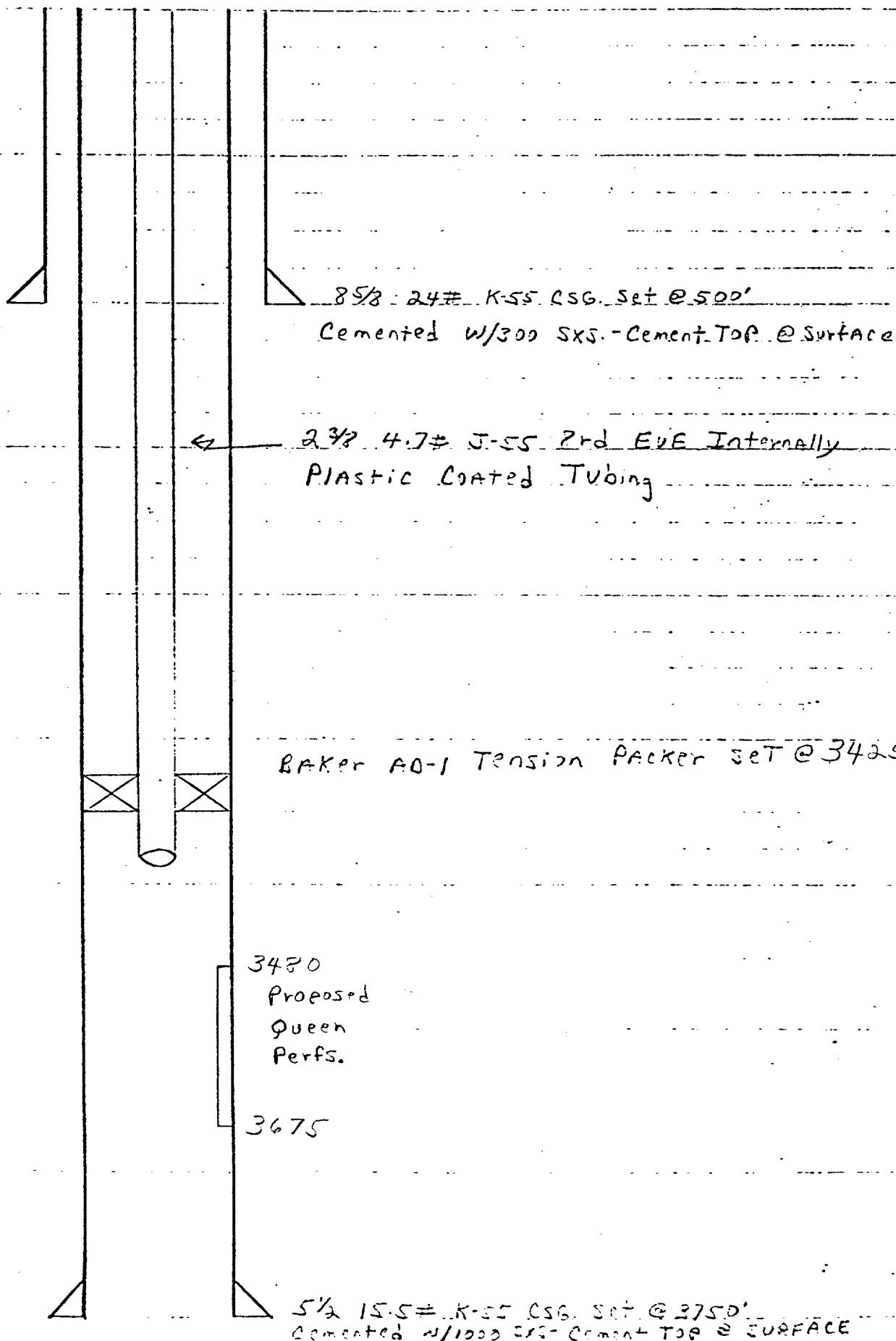
5 1/2 15.5# K-55 Csg. Set @ 3732'
Cemented w/ 300 SXS - Cement Top @ SURFACE

MYERS-LANGLIE MATTIX UNIT

WELL NO. 81

PROPOSED WELL TO BE DRILLED

UL G, Sec. 33-T.23S-R37E



8 5/8 24# K-55 CSG. SET @ 500'

Cemented w/300 SXS - Cement TOP @ SURFACE

← 2 3/8 4.7# J-55 2nd EYE Internally
PLASTIC COATED TUBING

BAKER AO-1 TENSION PACKER SET @ 3425'

3480
Proposed
Queen
Perfs.

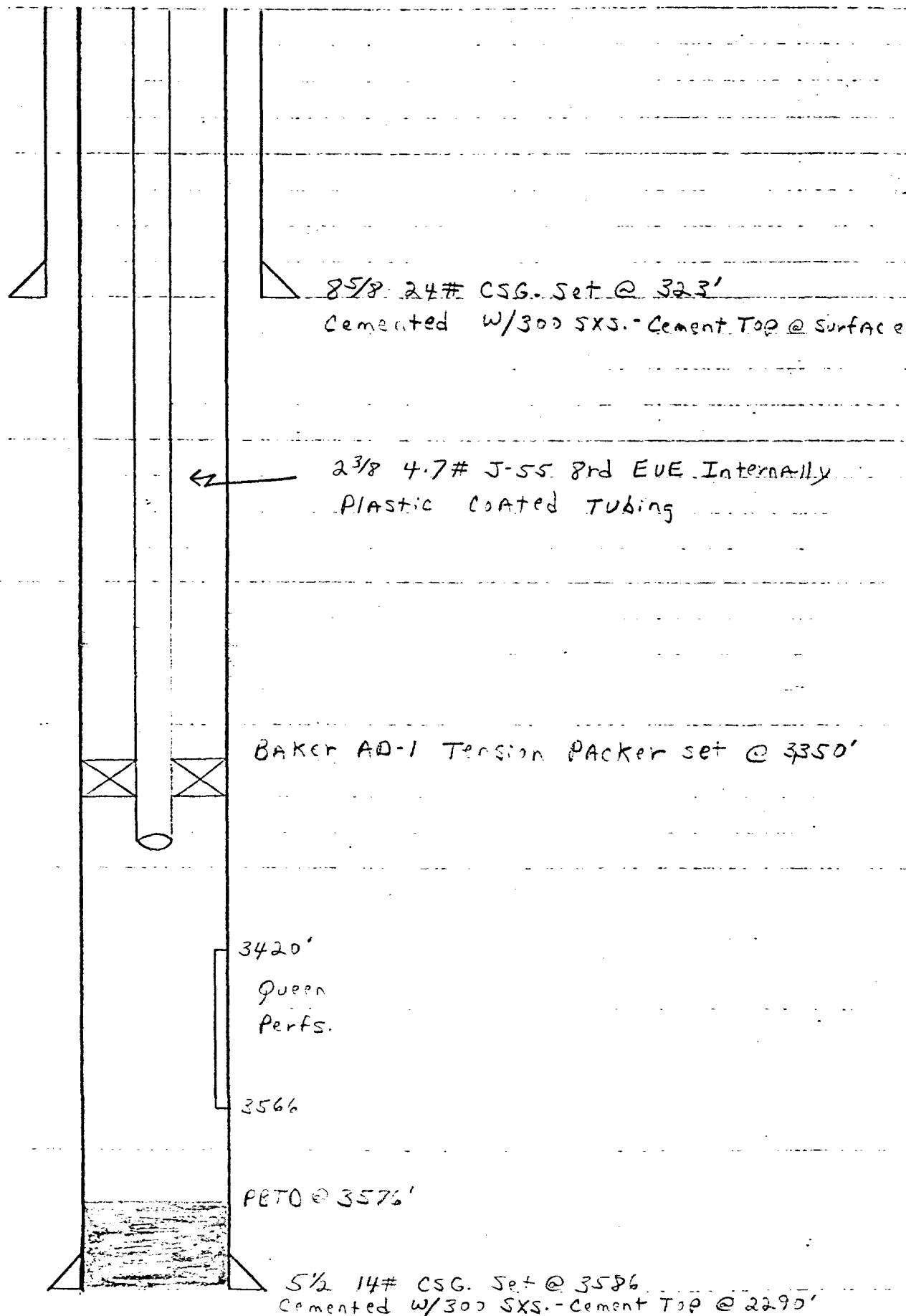
3675

5 1/2 15.5# K-55 CSG. SET @ 2750'
Cemented w/1000 SXS - Cement TOP @ SURFACE

MYERS-LANGLIE MATTIX UNIT

WELL NO. 84

UL H, Sec. 34-T23S-R37E



8 5/8 24# CSG. Set @ 323'

Cemented w/300 SXS. - Cement Top @ Surface

2 3/8 4.7# J-55 8rd EVE Internally
PLASTIC COATED TUBING

BAKER AD-1 Tension Packer set @ 3350'

3420'

Queen
Perfs.

3566

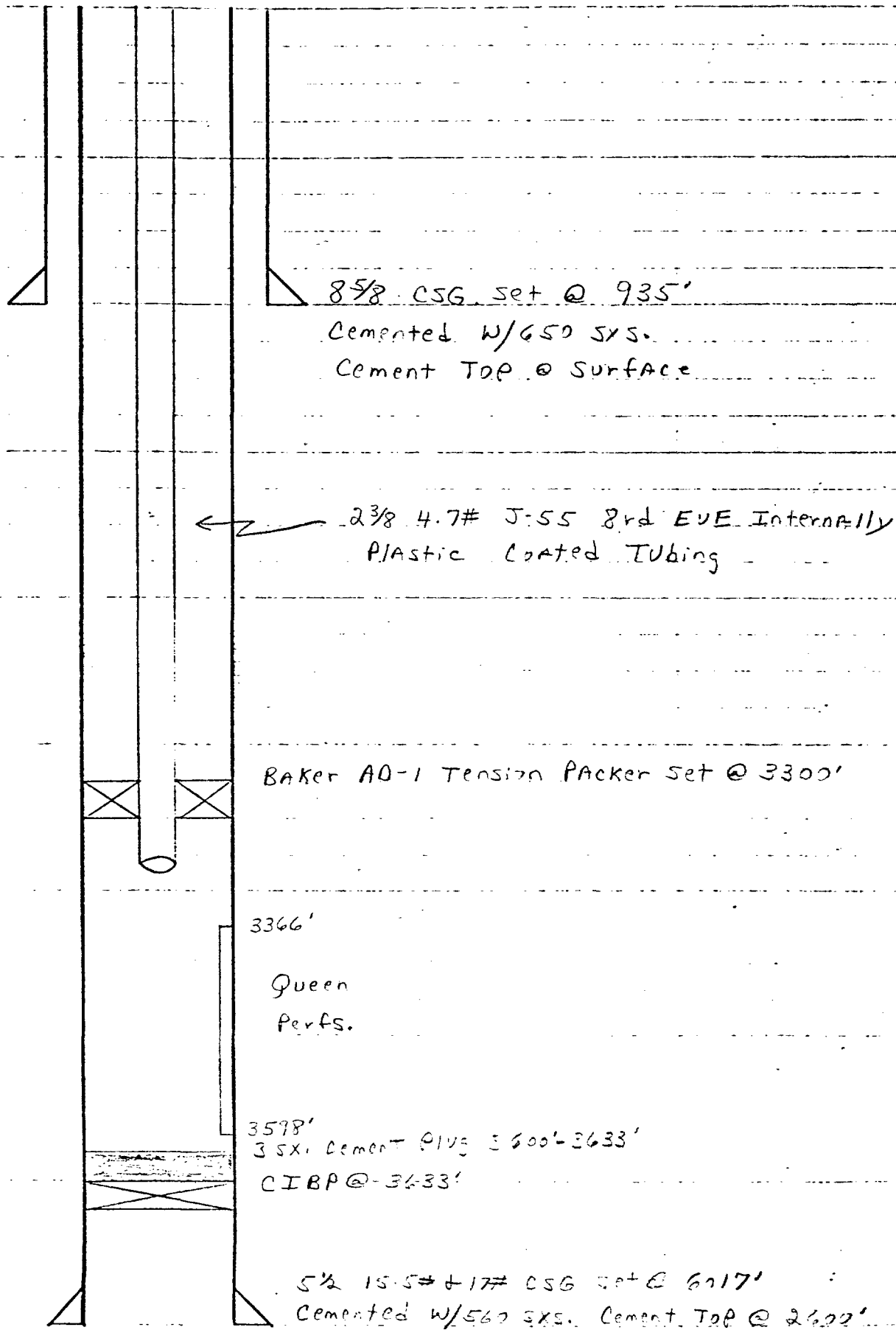
PETO @ 3576'

5 1/2 14# CSG. Set @ 3586
Cemented w/300 SXS. - Cement Top @ 2290'

MYERS-LANGLIE MATTIX UNIT

WELL NO. 87

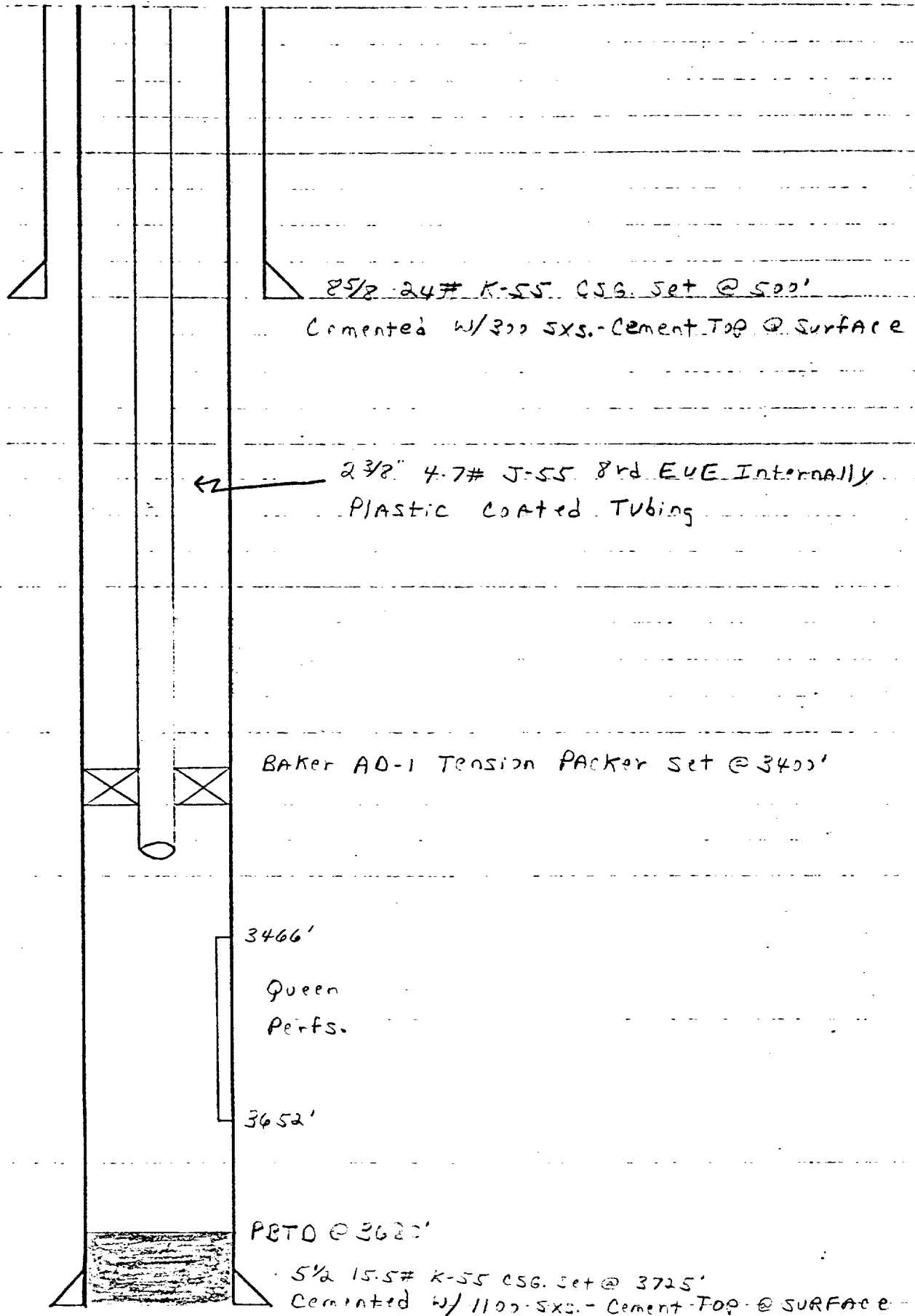
UL I, Sec. 33-T23S-R37E



MYERS-LANGLIE MATTIX UNIT

WELL NO. 93

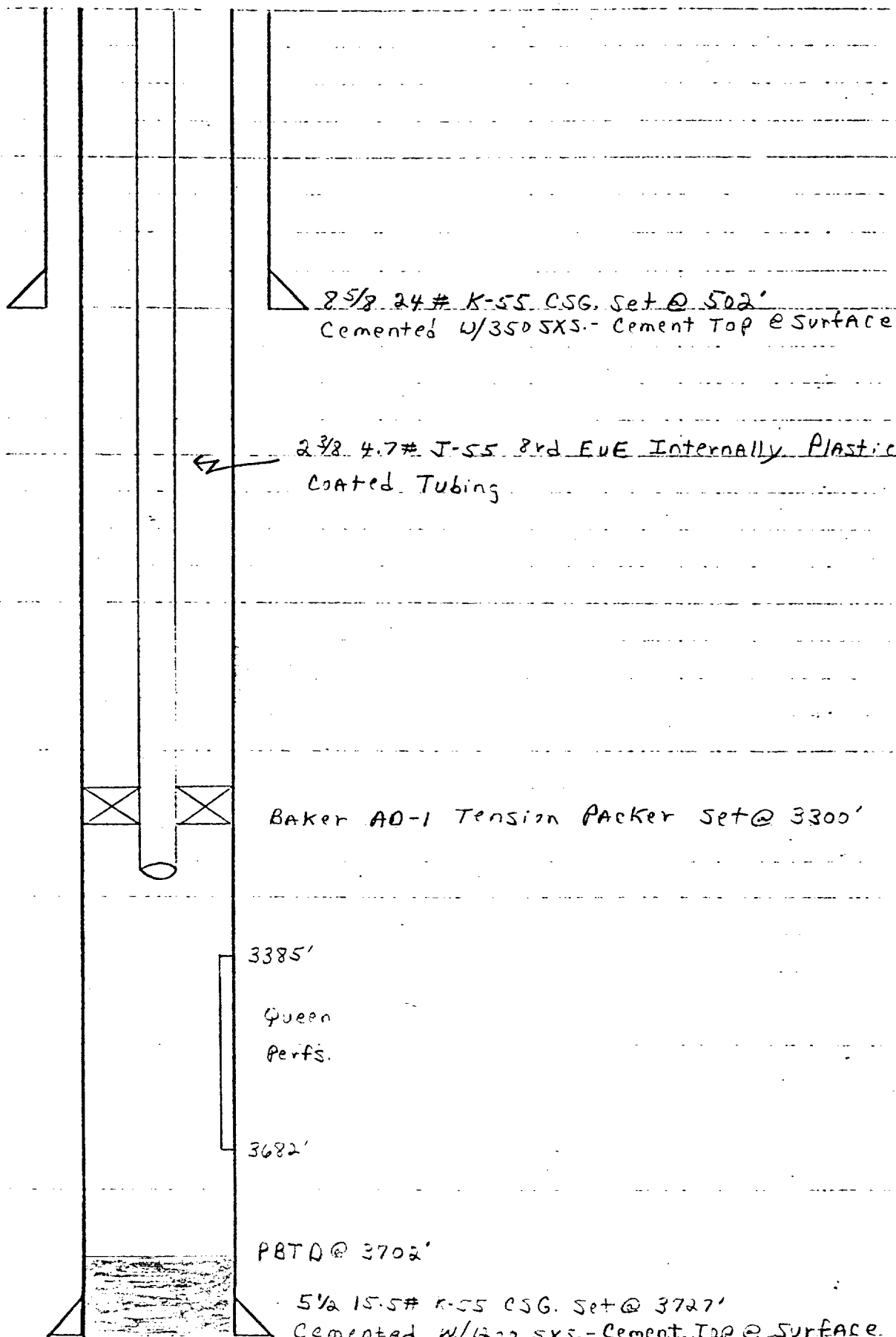
UL K, Sec. 32-T23S-R37E



MYERS-LANGLIE MATTIX UNIT

WELL NO. III

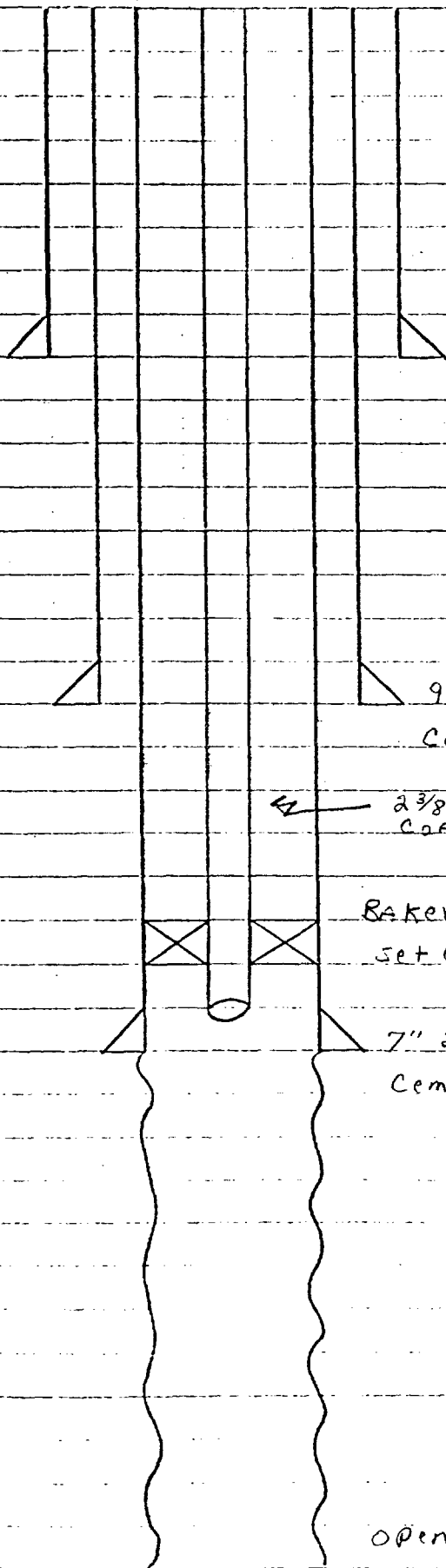
UL 0, Sec. 32-T23S-R37E



MYERS-LANGLIE MATRIX UNIT

WELL NO. 117

UL M, Sec. 34-T23S-R37E



13" 40# CSG. Set @ 336'

Cemented w/250 SXS - CALC. Cement Top @ Surface

9 5/8" 34# CSG. Set @ 2540'

Cemented w/500 SXS - CALC. Cement Top @ 434'

← 2 3/8" 4.7# J-55 8rd EUE INTERNALLY PLASTIC
Coated Tubing

BAKER AQ-1 Tension Packer

Set @ 3350'

7" 24# CSG. Set @ 3435'

Cemented. w/100 SXS - CALC. Cement Top @ 2552'

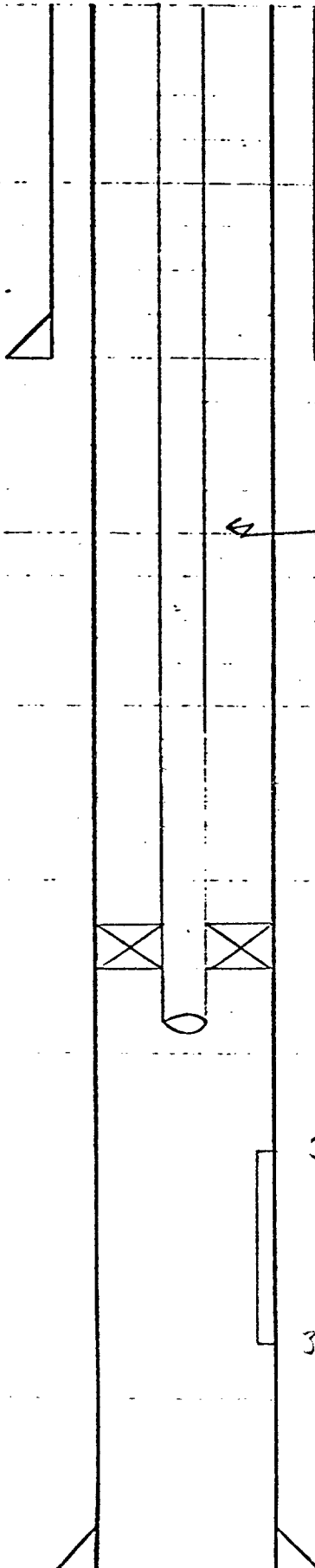
Open Hole TO @ 3571'

MYERS-LANGLIE MATTIX UNIT

WELL NO. 126

PROPOSED WELL TO BE DRILLED

UL A, Sec. 4-T24S-R37E



8 5/8 24# K-55 CSG. Set @ 500'

Cemented w/300 SXS - Cement Top @ Surface

← 2 3/4 4.7# J-55 2nd Eye Internally
Plastic Coated Tubing

BAKER AO-1 Tension Packer set @ 3400'

3470
Proposed
Queen
Perfs.

3650

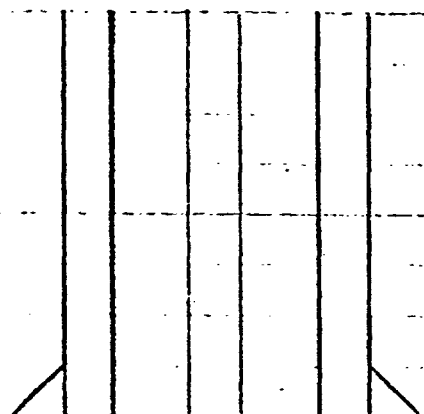
5 1/2 15.5# K-55 CSG. Set @ 3750'
Cemented w/4/1000 SXS - Cement Top @ SURFACE

MYERS-LANGLIE MATTIX UNIT

WELL NO. 128

PROPOSED WELL TO BE DRILLED

ULC, Sec. 4-T245-R37E



8 5/8" 24# K-55 CSG. Set @ 500'

Cemented w/300 SXS - Cement Top @ Surface

← 2 3/8" 4.7# J-55 2nd Eye Internally
Plastic Coated Tubing

BAKER AQ-1 Tension Packer Set @ 3450'

3520
Proposed
Queen
Perfs.

3680

5 1/2" 15.5# K-55 CSG. Set @ 3750'
Cemented w/300 SXS - Cement Top @ Surface

MYERS LANGLEY MATTIX UNIT

WELL No. 130

UL A, Sec. 5-T24S-R37E

2 5/8" 32# CSG. Set @ 1180'

Cemented w/950 SXS. - Cement Top @ SURFACE

Top Liner @ 3150'

5 1/2" 17# CSG. Set @ 3410'

Cemented w/450 SXS. - CALC. Cement Top @ SURFACE

BAKER AD-1 Tension Packer Set @ 3420'

3470'

Proposed Queen
Perfs.

3680'

4" Flush Joint

9.5# K-55 Liner

Set @ 3750'

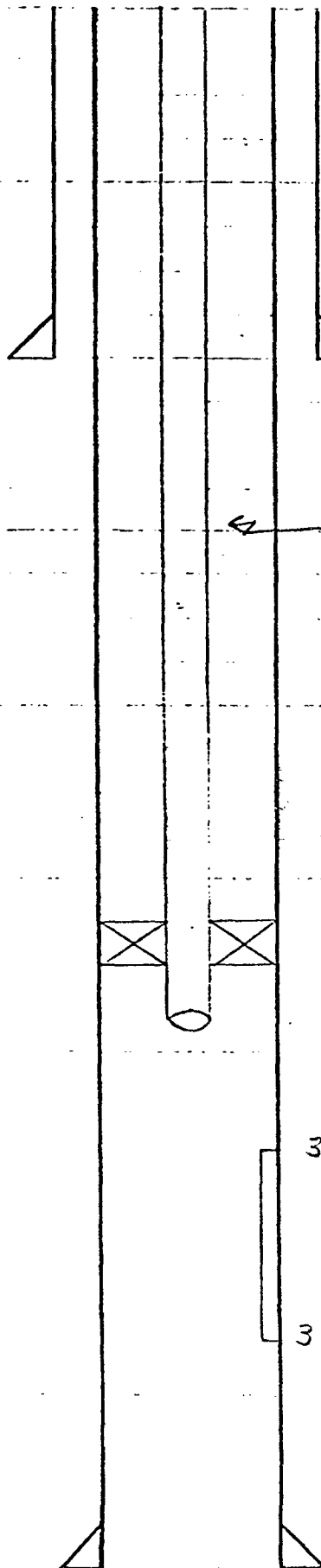
Cemented w/150 SXS. - Cement Top @ 3150'

MYERS-LANGLIE MATTIX UNIT

WELL NO. 148

PROPOSED WELL TO BE DRILLED

UL G, Sec. 4-T24S-R37E



8 5/8 24# K-55 CSG. Set @ 500'

Cemented w/300 SXS - Cement Top @ Surface

← 2 3/8 4.7# J-55 2nd Eye Internally
Plastic Coated Tubing

Baker AO-1 Tension Packer set @

3460'
Proposed
Queen
Perfs.

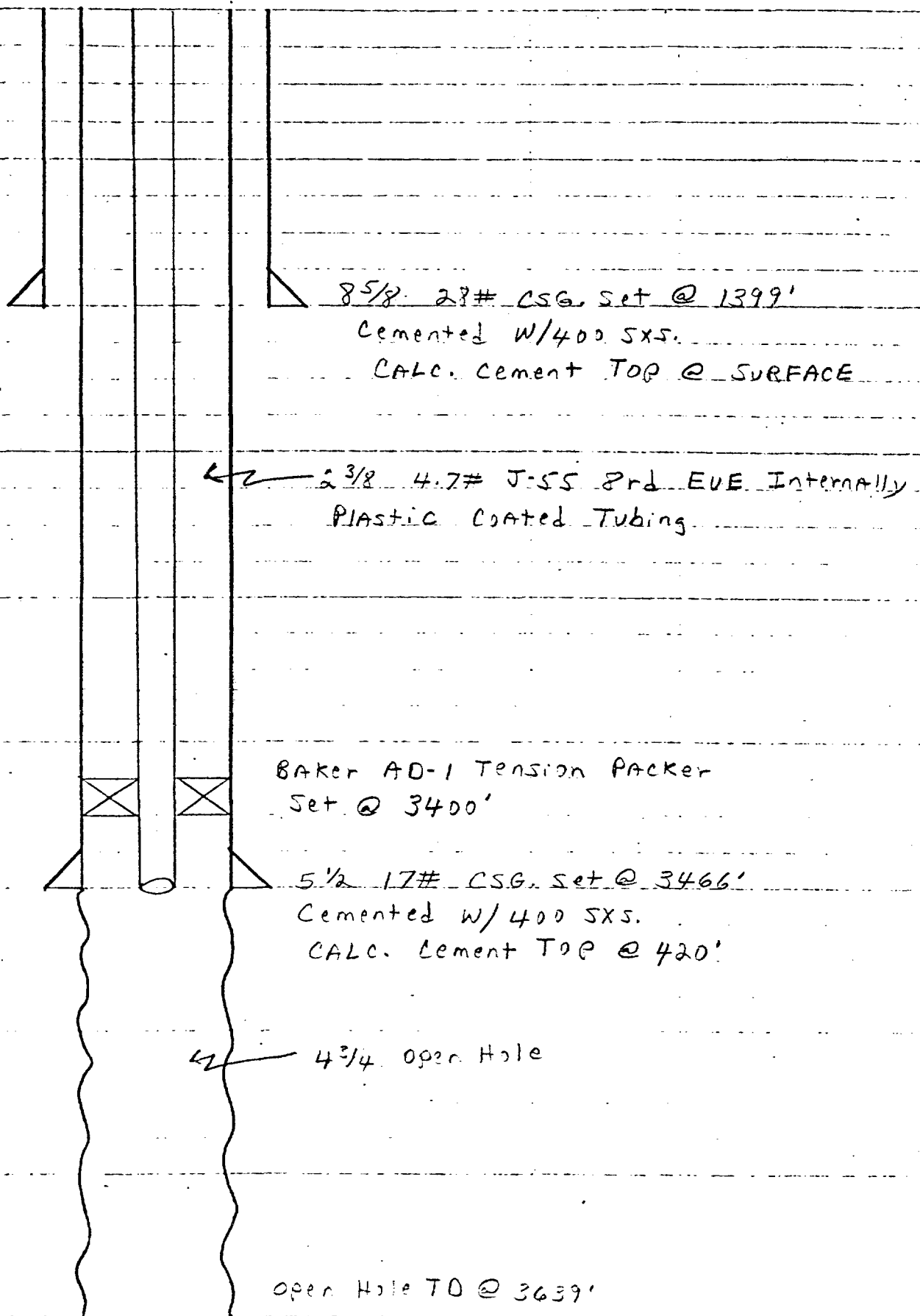
3650'

5 1/2 15.5# K-55 CSG. Set @ 2750'
Cemented w/1000 SXS - Cement Top @ Surface

MYERS-LANGLIE MATTIX UNIT

WELL NO. 163

UL I, Sec. 4-T24S-R37E



8 5/8 28# CSG. Set @ 1399'

Cemented W/400 SXS.

CALC. Cement TOP @ SURFACE

← 2 3/8 4.7# J-55 8rd EVE. Internally
Plastic Coated Tubing

BAKER AD-1 Tension Packer
Set @ 3400'

5 1/2 17# CSG. Set @ 3466'

Cemented W/400 SXS.

CALC. Cement TOP @ 420'

← 4 3/4 open Hole

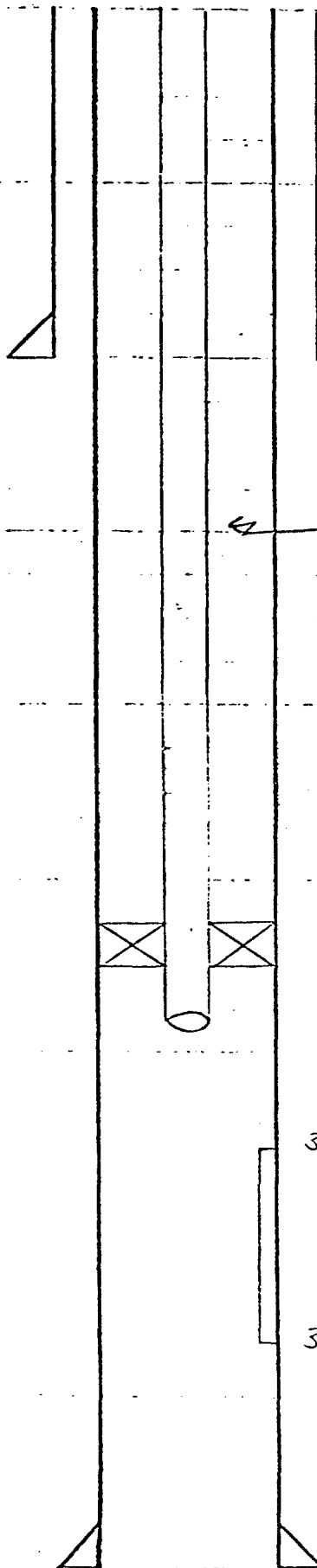
open Hole TO @ 3639'

MYERS-LANGLIE MATTIX UNIT

WELL NO. 165

PROPOSED WELL TO BE DRILLED

UL K, Sec. 4-T24S-R37E



8 5/8 24# K-55 CSG. Set @ 500'

Cemented w/300 SXS - Cement Top @ Surface

2 3/8 4.7# J-55 Prod EYE Internally

PLASTIC COATED TUBING

BAKER AG-1 Tension Packer Set @ 3420'

3480

Proposed
Queen
Perfs.

3665

5 1/2 15.5# K-55 CSG. Set @ 3750'

Cemented w/1000 SXS - Cement Top @ SURFACE

MYERS LANGLEY MATTIX UNIT

WELL NO. 167

ULI, Sec. 5-T24S-R37E

Top 7" Liner @ 987'

8 5/8" 28# CSG. Set @ 1206'

Cemented W/250 SXS. - CALC. Cement Top @ Surface

7" 20# Liner set @ 1383'

Cemented W/29 SXS. - CALC. Cement Top @ 1130'

← 2 3/8" 4.7# J-55 8rd EUE Internally Plastic Coated Tubing

BAKER AD-1 Tension Packer Set @ 3420'

5 1/2" 14# CSG. Set @ 3428' Cemented W/170 SXS.

CALC. Cement Top @ 2726'

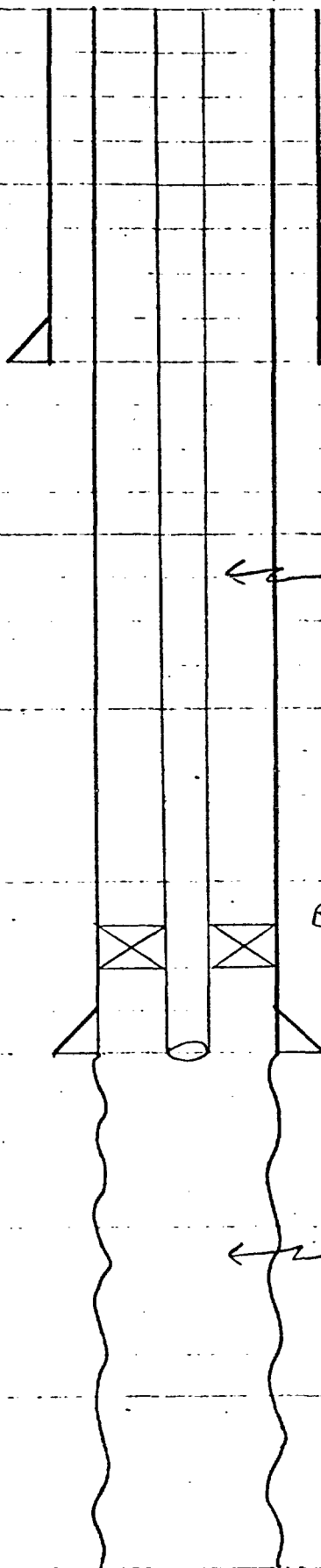
← Top 4 1/2" Liner @ 3428

4 1/2" Flush Joint Slotted Liner
Set @ 3433' NOT Cemented

MYERS-LANGLIE MATTIX UNIT

WELL NO. 181

UL M, Sec. 4-T245-R37E



8 5/8 28# CSG. Set @ 1176'

Cemented w/415 SXS.

CALC. Cement TOP @ SURFACE

← 2 3/8 4.7# J-55 8rd EVE Internally
PLASTIC COATED TUBING

BAKER AD-1 Tension Packer Set @ 3350'

5 1/2 17# CSG. Set @ 3409'

Cemented w/400 SXS. - CALC. Cement TOP @ 362'

← 4 3/4 Open Hole

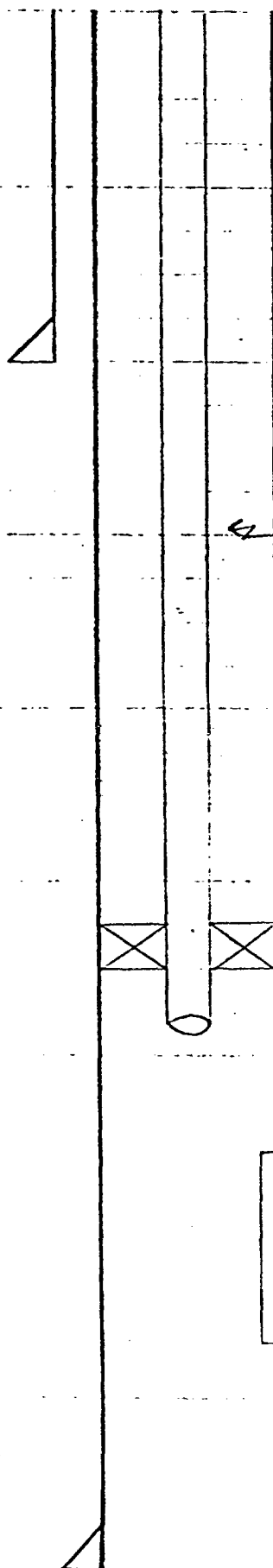
TD @ 3570'

MYERS-LANGLIE MATTIX UNIT

WELL NO. 183

PROPOSED WELL TO BE DRILLED

UL O, Sec. 4-T24S-R37E



8 5/8 24# K-55 CSG. Set @ 500'

Cemented w/300 SX5-Cement TOP @ SURFACE

← 2 3/8 4.7# J-55 Prod E2E Internally
Plastic Coated Tubing

BAKER AD-1 Tension Packer Set @ 3450'

3510

Proposed
Queen
Perfs.

3650

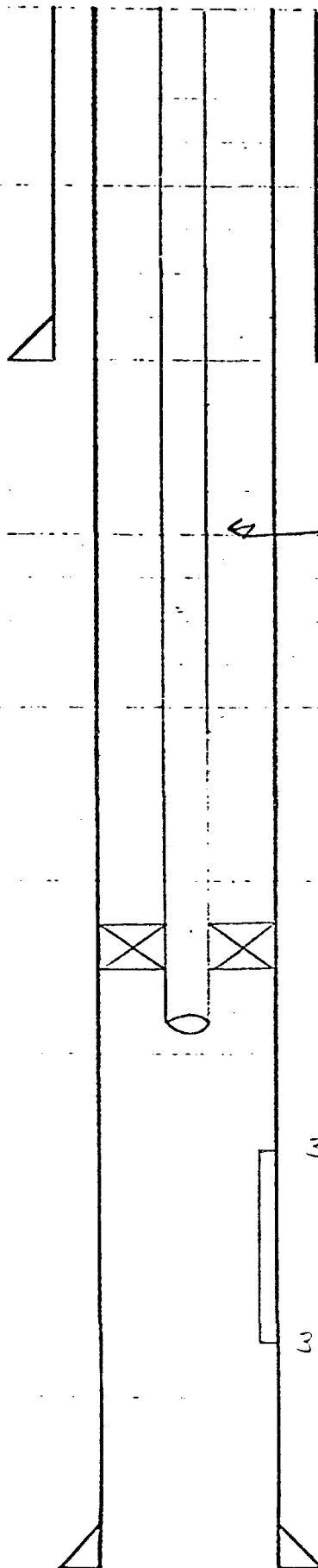
5 1/2 15.5# K-55 CSG. Set @ 2750'
Cemented w/1000 SX5-Cement TOP @ SURFACE

MYERS-LANGLIE MATTIX UNIT

WELL NO. 185

PROPOSED WELL TO BE DRILLED

UL M, Sec. 3-T24S-R37E



2 1/2" 24# K-55 CSG. Set @ 500'

Cemented w/1000 SXS - Cement Top @ Surface

← 2 3/4" 4.7# J-55 2nd EYE Internally
Plastic Coated Tubing

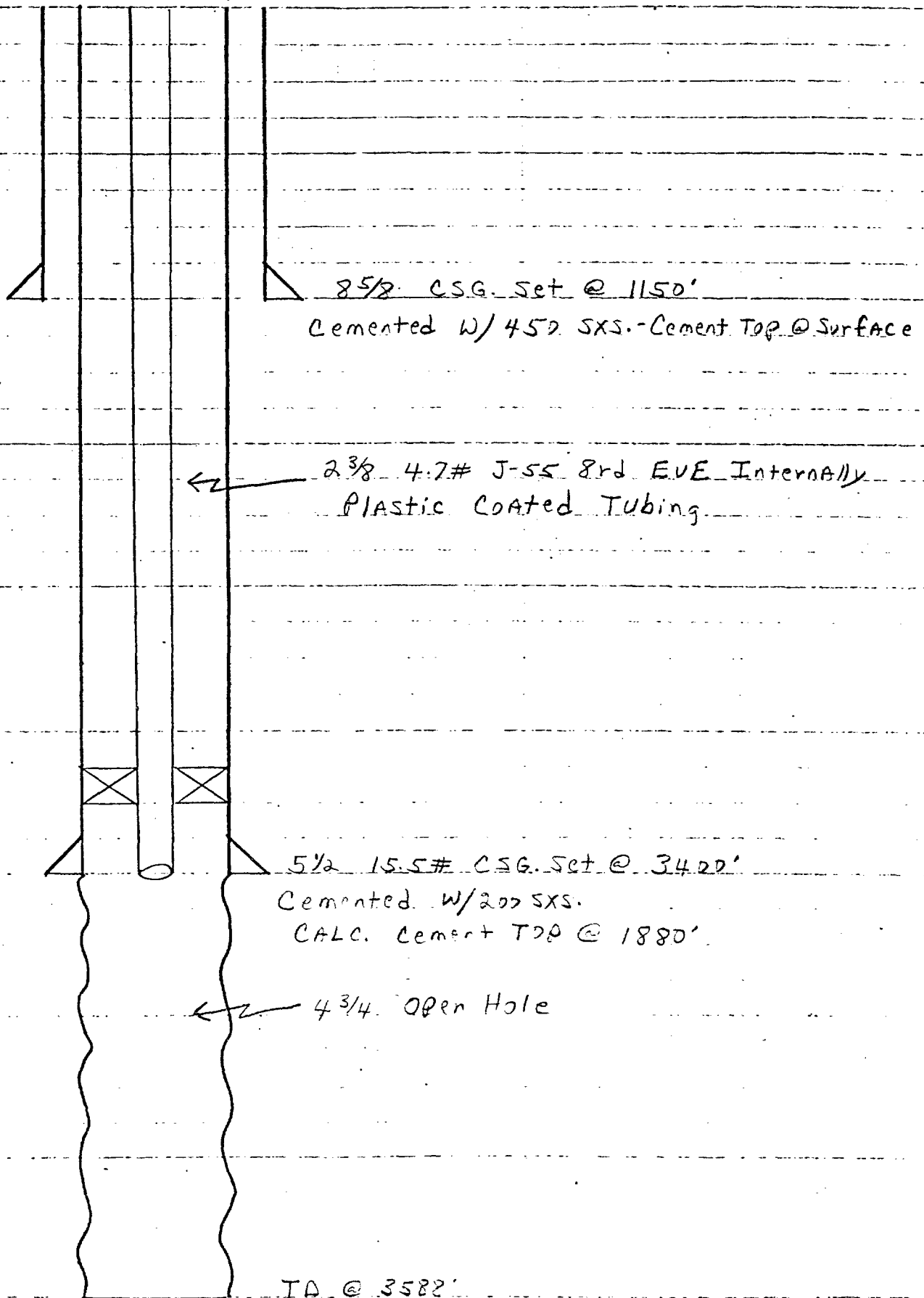
PACKER AO-1 Tension Packer Set @ 3420

5 1/2" 15.5# K-55 CSG. Set @ 3750'
Cemented w/1000 SXS - Cement Top @ Surface

MYERS-LANGLIE MATTIX UNIT

WELL NO. 189

UL M, Sec. 2-T24S-R37E

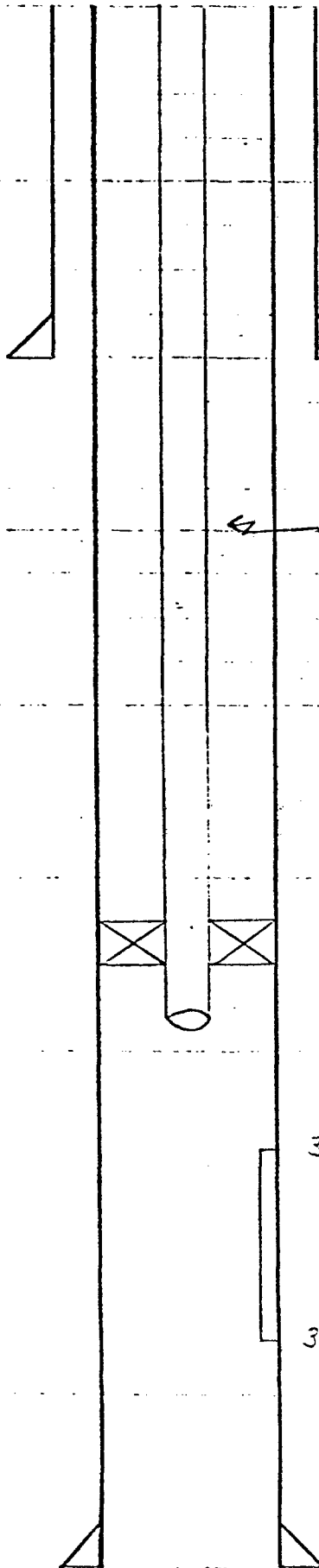


MYERS-LANGLIE MATTIX UNIT

WELL NO. 204

PROPOSED WELL TO BE DRILLED

ULC, Sec. 7-T24S-R37E



8 5/8 24# K-55 CSG. Set @ 500'

Cemented w/300 SXS - Cement Top @ Surface

← 2 3/8 4.7# J-55 2nd EUE Internally
Plastic Coated Tubing

BAKER AO-1 Tension Packer Set @ 3460'

3520
Proposed
Queen
Perfs.

3460

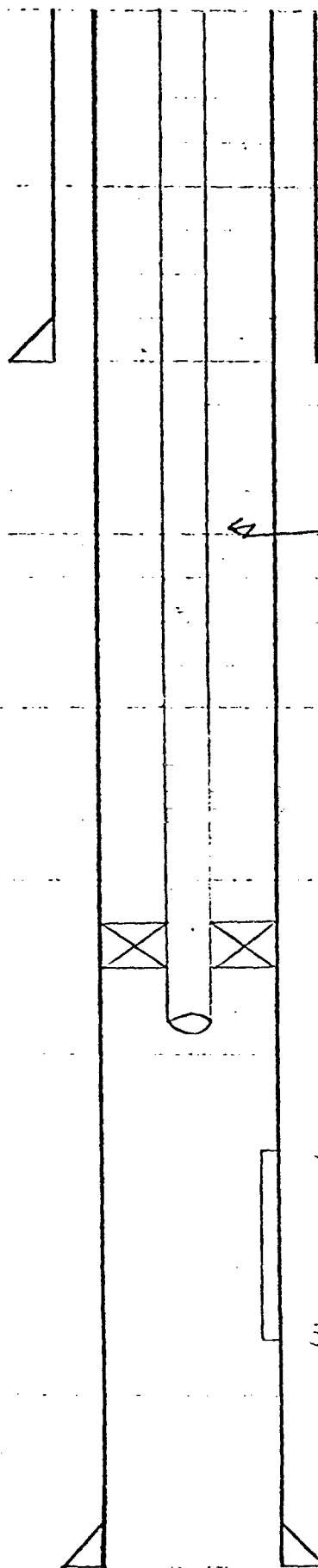
5 1/2 15.5# K-55 CSG. Set @ 3750'
Cemented w/1200 SXS - Cement Top @ SURFACE

MYERS-LANGLIE MATTIX UNIT

WELL NO. 212

PROPOSED WELL TO BE DRILLED

UL G, Sec. 7-T24S-R37E



8 5/8 24# K-55 CSG. Set @ 500'

Cemented w/300 SXS - Cement Top @ Surface

2 7/8 4.7# J-55 2nd EYE Internally
Plastic Coated Tubing

BAKER AO-1 Tension Packer Set @ 3400'

3480
Proposed
Queen
Perfs.

3640

5 1/2 15.5# K-55 CSG. Set @ 3750'
Cemented w/1200 SXS - Cement Top @ SURFACE

MYERS-LANGLIE MATTIX UNIT

WELL NO. 226

UL E, Sec. 11-T24S-R37E

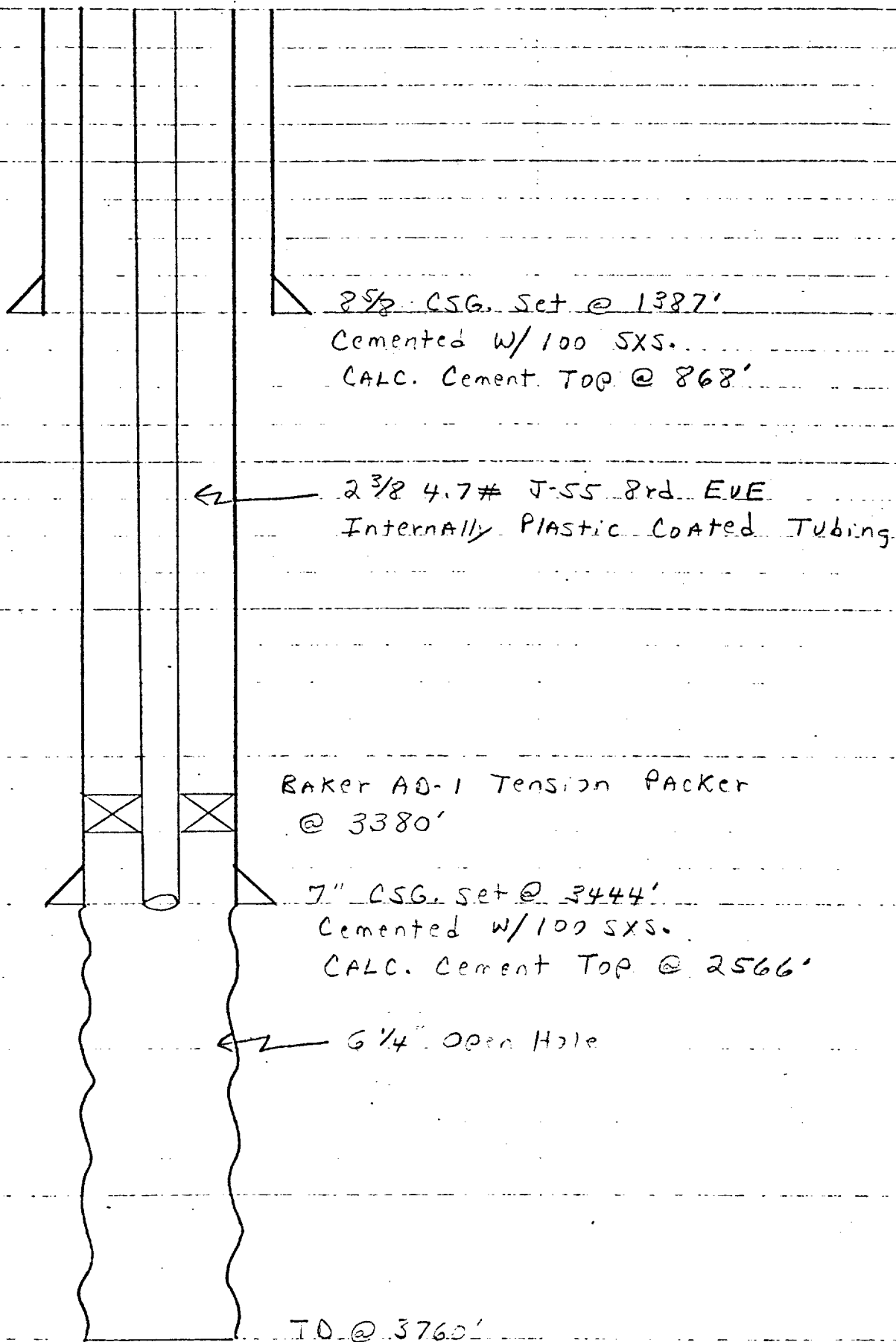


Exhibit V
Downhole Sketches Of All Plugged And
Abandoned Wells Within One-Half Mile
Radius Of The Proposed Injection Wells

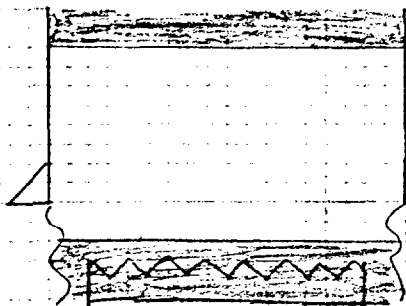
CARTER FOUNDATION PRODUCING CO.

E.C. HILL "E" NO. 2

UL H, SEC. 34-T235-R37E

P&A 1/22/75

10 SX Cement Plug SURFACE - 15'



13 3/8 CSG. @ 250'

70 SX Cement Plug 300'-403'

CUT 9 5/8 CSG. @ 386' & Pulled

250 SX Cement Plug 2400'-2577'

250 SX Cement Plug 2577'-3377'

9 5/8 CSG. Set @ 2914' Cemented w/1400 SXS.

Estimated Cement Top @ 386'

CUT 7" CSG. @ 3333' & Pulled

250 SX Cement Plug 4872'-6300'

25 SX Cement Plug 7000'-7107'

25 SX Cement Plug 9050'-9200'

EZ Drill Bit Set @ 9200'

7" CSG. Set @ 9577' Cemented w/650 SXS.

Estimated Cement Top @ 3333'

TO @ 9730

STANOLIND OIL CO.

MEYERS R. FEO. No. 7

UL L, Sec. 4-T24S-R37E

ATA 11/44

12 SX Cement Plug SURFACE - 66'

13" CSG. Set @ 253' Cemented W/300 SXs.

CALCULATED Cement TOP @ SURFACE

10 SX Cement Plug 1120'-1156'

8 5/8" CSG. Set @ 1156' Cemented W/450 SXs.

CALCULATED Cement TOP @ SURFACE

15 SX. Cement Plug 2440'-2500'

5 1/2" CSG. Shot OFF @ 2500'

5 1/2" CSG. Set @ 3415'

Cemented W/275 SXs.

ESTIMATED Cement TOP @ 2500'

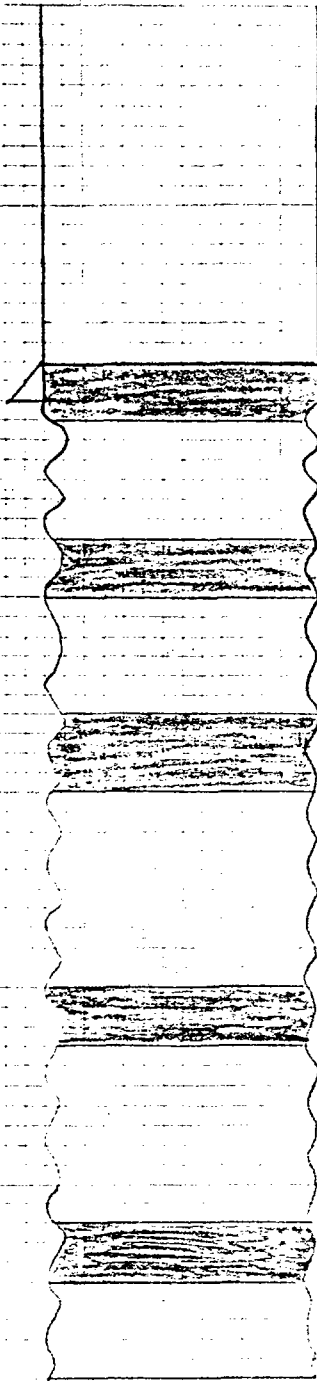
TD @ 3615'

RESLER + SHELDON

BLINERY NO. 1

UL D, Sec. 34-T23S-R37E

P+A 1/14/71



25 SX. Cement Plug 850'-950'

8 5/8 CSG. Set @ 922'

Cemented w/450 SXs. Cement Top @ SURFACE

25 SX cement Plug 2350'-2450'

25 SX Cement Plug 3300'-3400'

25 SX Cement Plug 3900'-4000'

25 SX. Cement Plug 5200'-5300'

TD @ 5621'

RESLER + SHELDON

FANNING NO. 2

UL B, Sec. 33-T235-R37E

P+A 7/48

15 SX Cement Plug SURFACE - 20'

13 3/8 CSG. Set @ 318' Cemented w/300 SXS.

CALCULATED Cement TOP @ SURFACE

15 SX Cement Plug 1035'-1075'

9 5/8 CSG. Shot OFF @ 1500'

9 5/8 CSG. Set @ 2950' Cemented w/1300 SXS. - EST. Cement Top @ 1500'

15 SX Cement Plug 2850'-2900'

7" CSG. Shot OFF @ 3360'

5 SX. Cement Plug 6370'-6400'

Cement Retainer Set @ 6400'

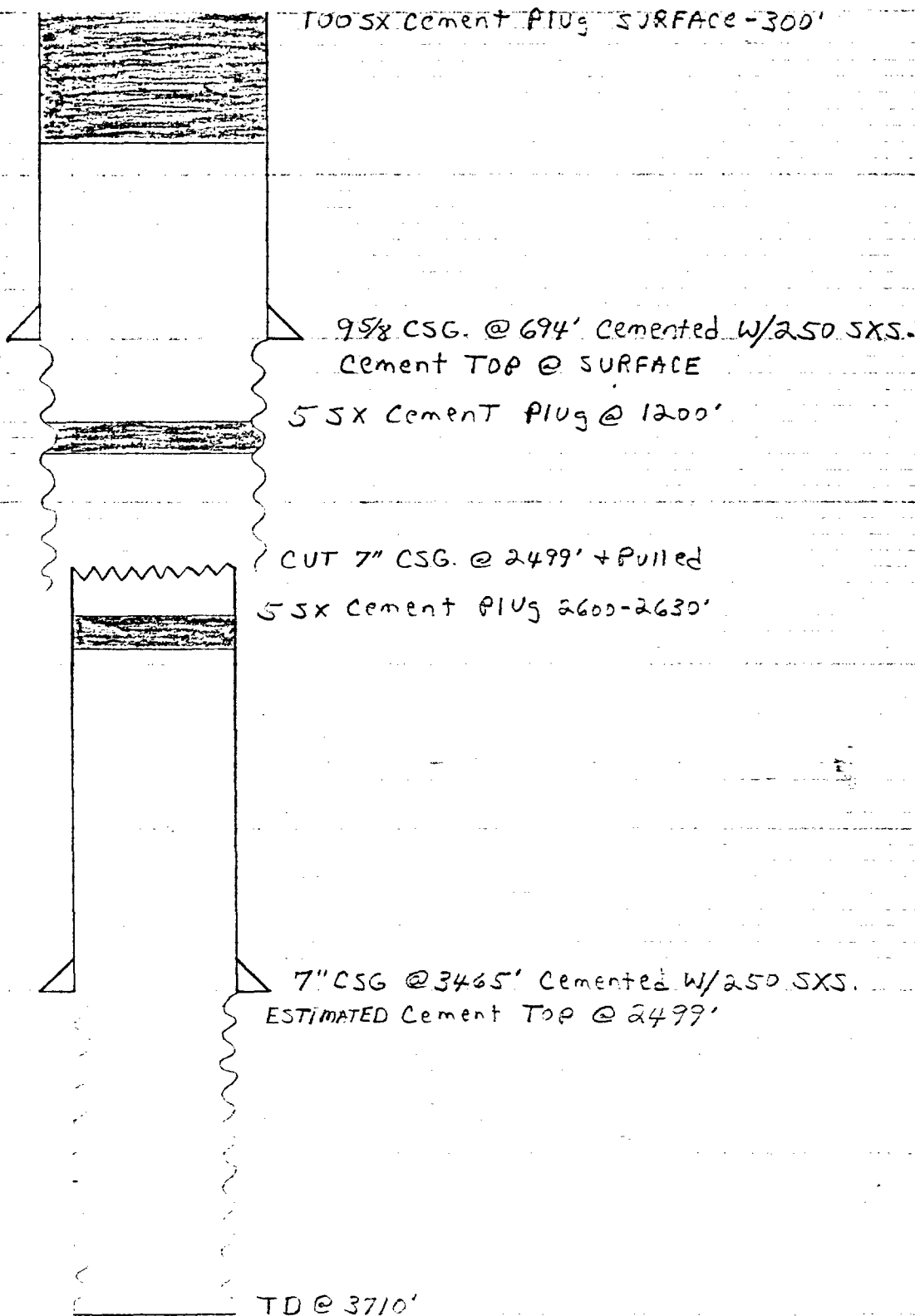
45 SX Cement Squeezed Below Retainer

7" CSG. Set @ 6852' Cemented w/700 SXS.

ESTimated Cement TOP @ 3360'

TD @ 9928'

R. OLSEN OIL CO.
STEELER NO. 1
UL M, Sec. 20-T23S-R37E
P+A 12/70

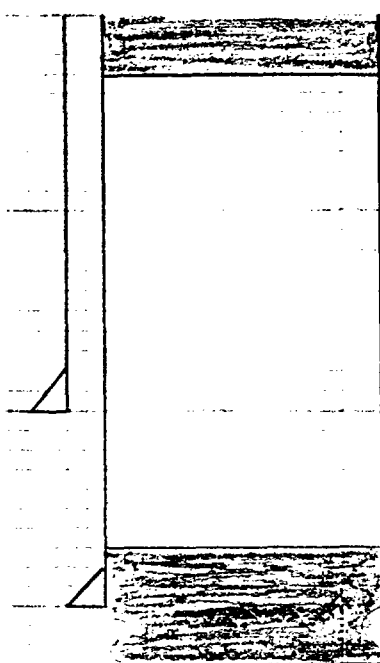


SINCLAIR OIL & GAS CO.

FOWLER HAIR NO. 1

UL D, SEC. 9-T24S-R37E

P+A 7/59



25 SX Cement Plug SURFACE - 90'

12 1/2" CSG. @ 225' Cemented w/150 SXs.

CALC. Cement TOP @ SURFACE

50 SX Cement Plug 1250' - 1350'

8 5/8" CSG. @ 1300' Cemented w/200 SXs.

CALC. Cement TOP @ SURFACE

50 SX Cement Plug 1910' - 2050'

CUT 7" CSG. @ 2000' & Pulled

200 SX. Cement Plug 3050' - 3575'

7" CSG. @ 3084 Cemented w/250 SXs.

Estimated Cement TOP @ 2000'

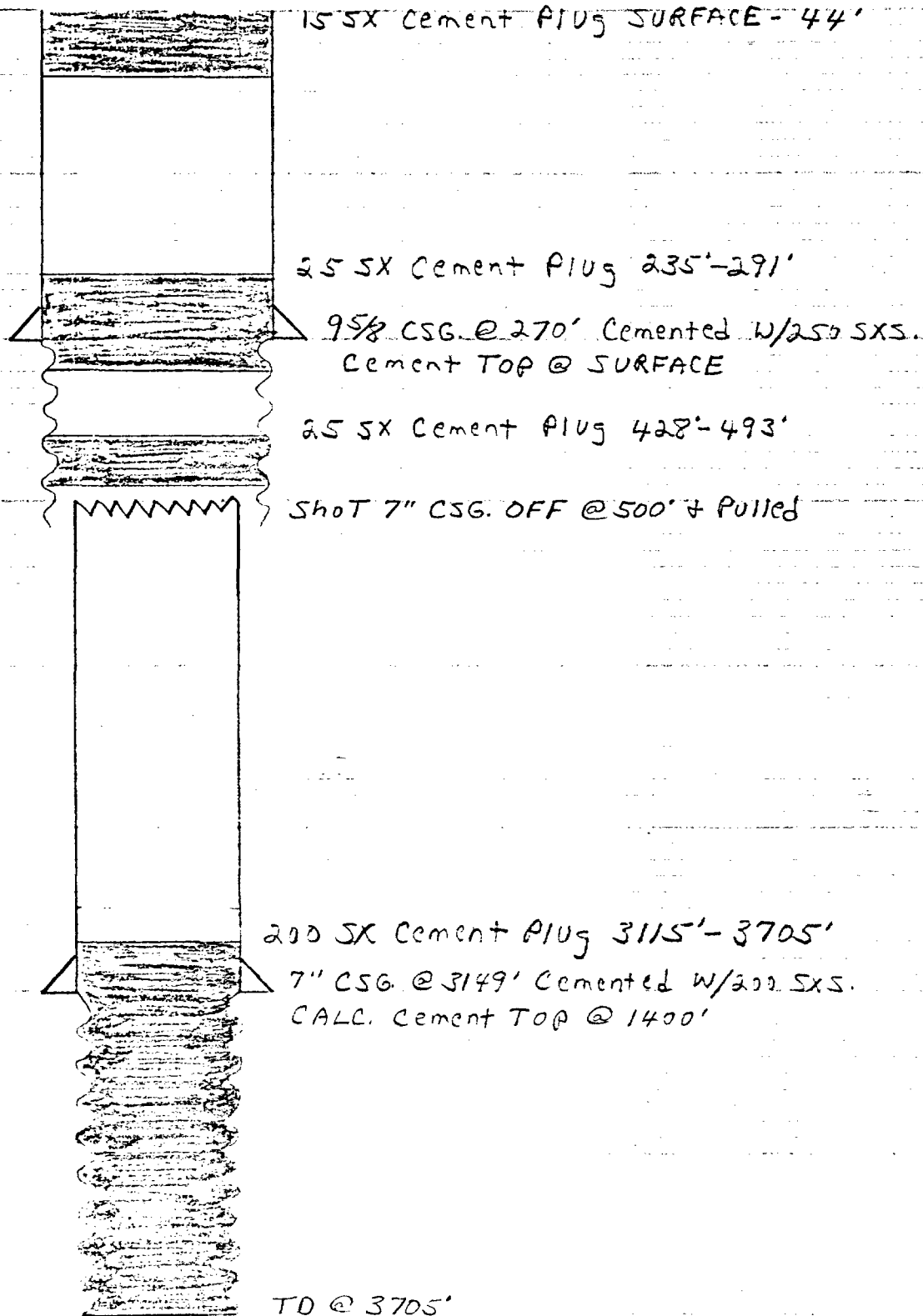
TD @ 3575'

SINCLAIR OIL & GAS CO.

P. CARTER NO. 1

UL G, Sec. 9-T245-R37E

P+A 7/59



GULF OIL CORP.

S.J. CARR NO. 1

U.L.L. Sec. 3-T24S-R37E

P+A 4/52

13 SX Cement Plug SURFACE - 25'

Bridge Plug @ 25'

15 1/2 CSG. @ 148' NOT Cemented

10 3/4 CSG. @ 1237' Cemented W/250 SXS
Cement TOP @ SURFACE

34 SX Cement PLUG 2445'-2520'

Shot 7" CSG. OFF @ 2554' + PULLED

15' OF Cement ON TOP OF Retainer
Cement Retainer @ 3466' Squeezed 20 SXS Below Retainer

7" CSG. @ 3484' Cemented W/100 SXS.
CALC. Cement TOP @ 2600'

PBTD @ 3625'

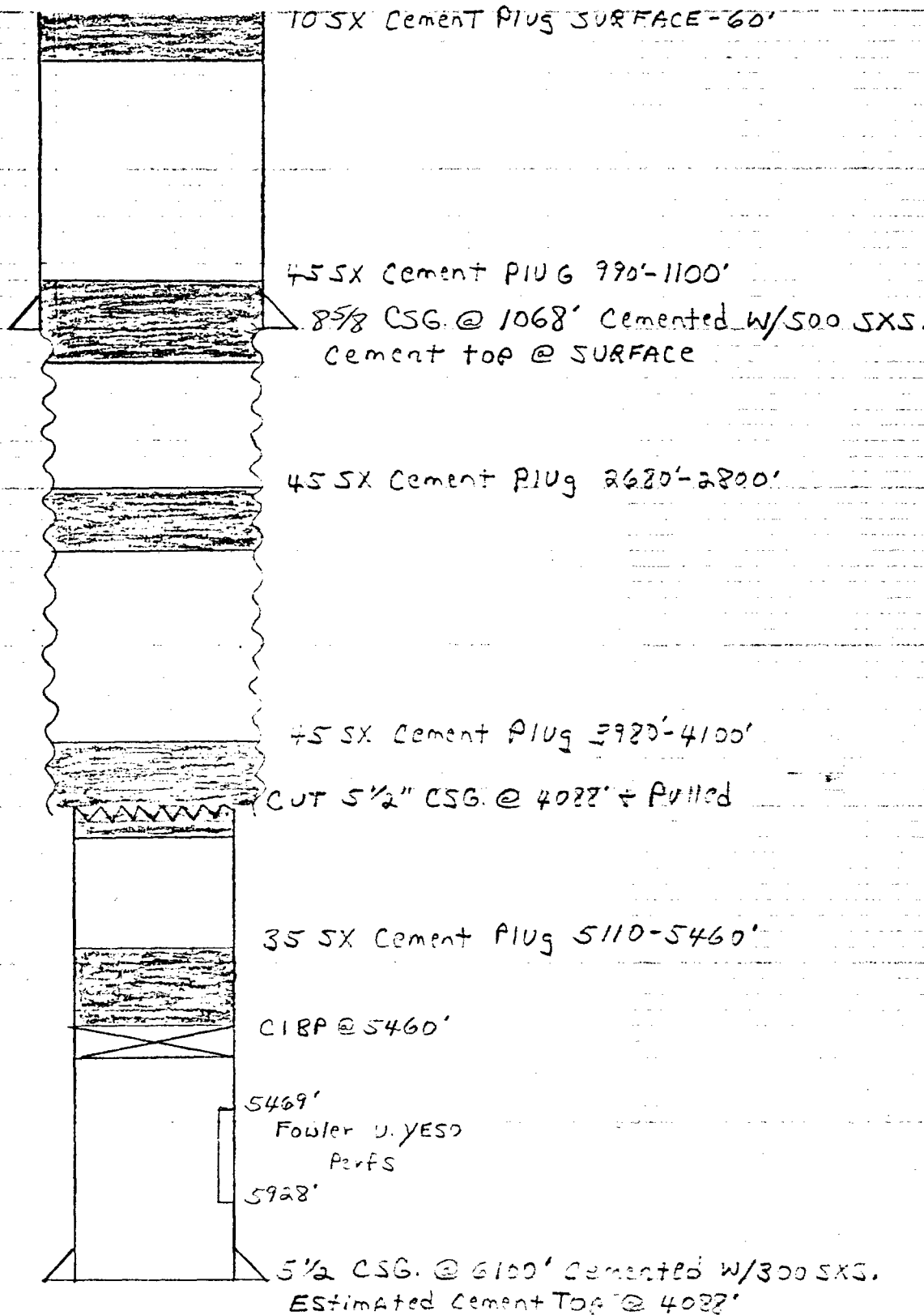
TD @ 3826'

WESTERN EQUIP. CO.

DALPORT-HAIR NO. 1

UL L, Sec. 11-T24S-R37E

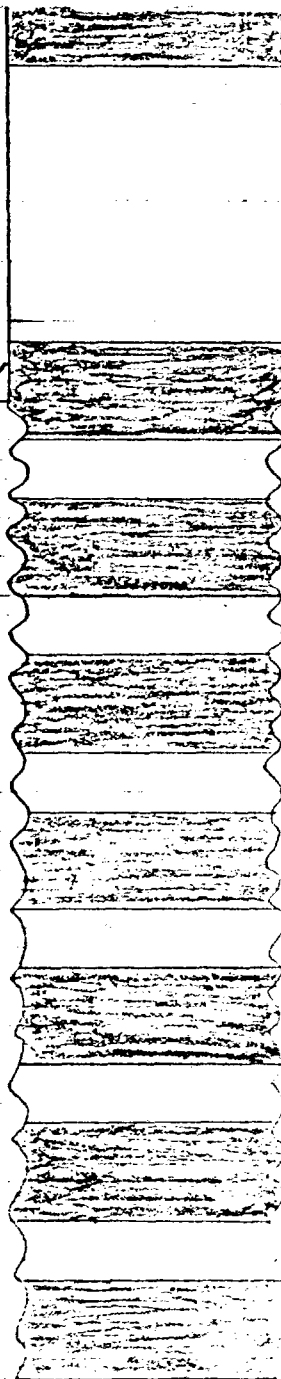
P&A 9/72



McCULLOCH OIL CORP.

SUN-HAIR NO. 1

ULD, Sec. 11-T24S-R37E



20 SX Cement Plug SURFACE - 60'

50 SX Cement Plug 994'-1167'

8 5/8" @ 1117' Cemented W/250.5XS.
TOP Cem. @ SURFACE

50 SX Cement Plug 2087'-2260'

50 SX Cement Plug 3399'-3572'

50 SX Cement Plug 4204'-4377'

50 SX Cement Plug 4972'-5155'

50 SX Cement Plug 5352'-5525'

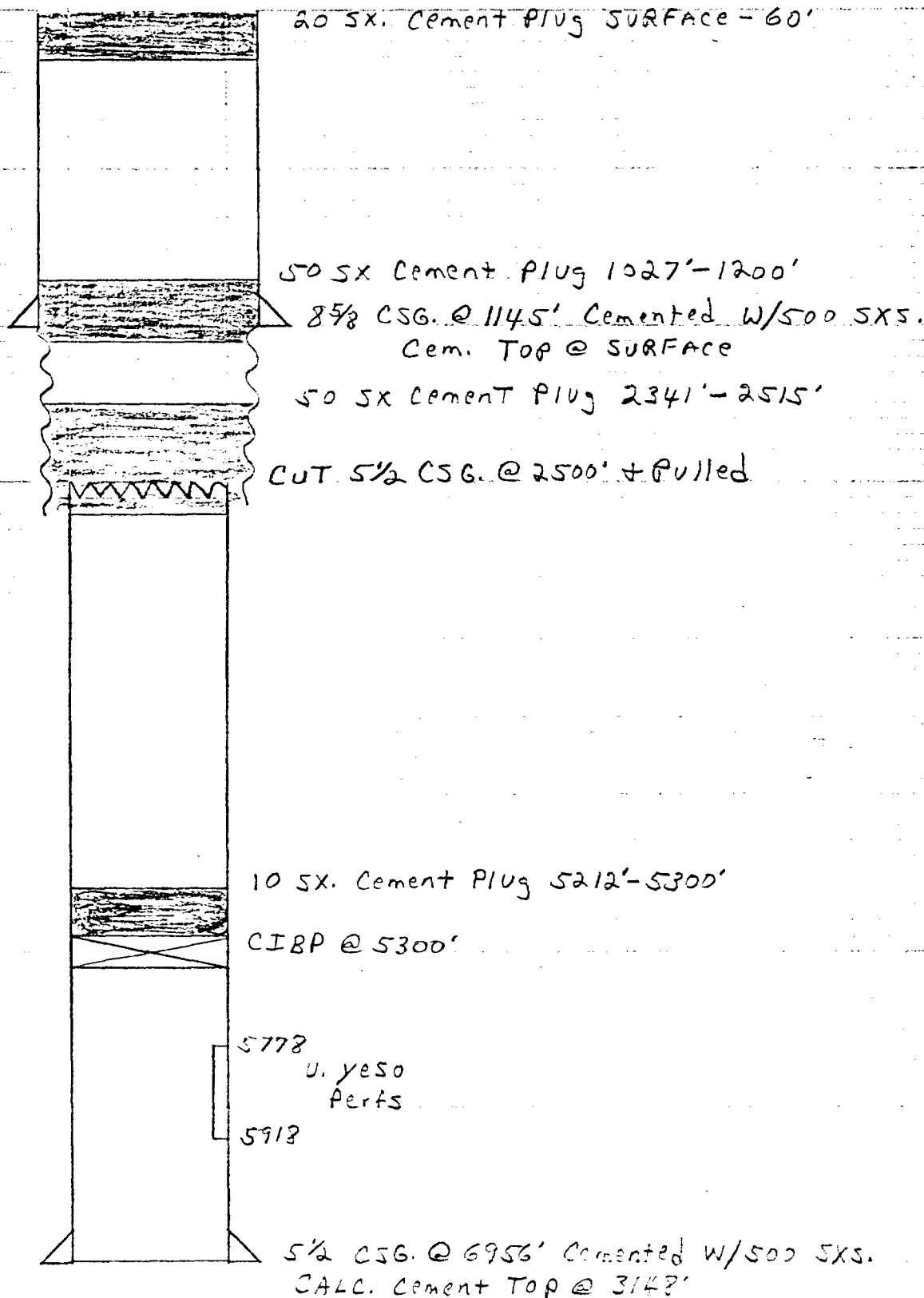
50 SX Cement Plug 5937'-6110'

TD @ 6110'

MCCULLOCH OIL CORP.
DALPORT-HAIR NO. 1

UL M, Sec. 11-T24S-R37E

P&A 4/76



CITIES SERVICE OIL CO.

HODGES NO. 1

UL A, SEC. 8-T245-R37E

P+ A 4/49

10 SX Cement Plug SURFACE - 100'

12 1/2 CSG. @ 40' Cemented w/ 50 SXS.

TOP cem. @ SURFACE

30 SX Cement Plug 900'-1200'

7 5/8 CSG. @ 1300' Cemented w/ 300 SXS.

40 SX Cement Plug

1350'-1750'

TOP cement @ SURFACE

40 SX Cement Plug 3400'-3575'

5 1/2 CSG. @ 3420' Cemented w/ 160 SXS.

CALC. Cement top @ 2200'

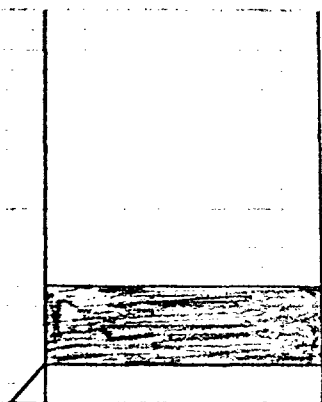
TO @ 3575'

GEORGE P. LIVERMORE, INC.

R.W. COWDEN NO. 2

UL O, SEC. 30-T23S-R37E

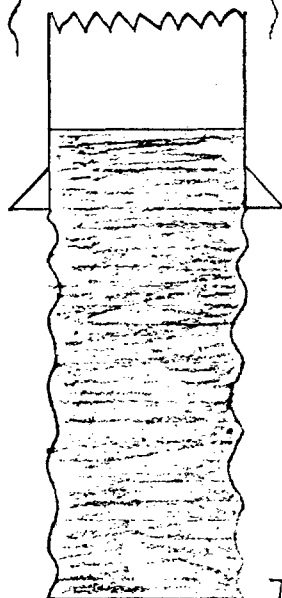
P+A 7/50



10 SX Cement Plug 1175'-1200'

8 5/8 CSG. @ 1216' Cemented w/552 SXs.

Top Cem. @ SURFACE



25 SX Cement Plug 3430'-3655'

5 1/2 CSG. @ 3447' Cemented w/525 SXs.

Estimated cement top @ 3000'

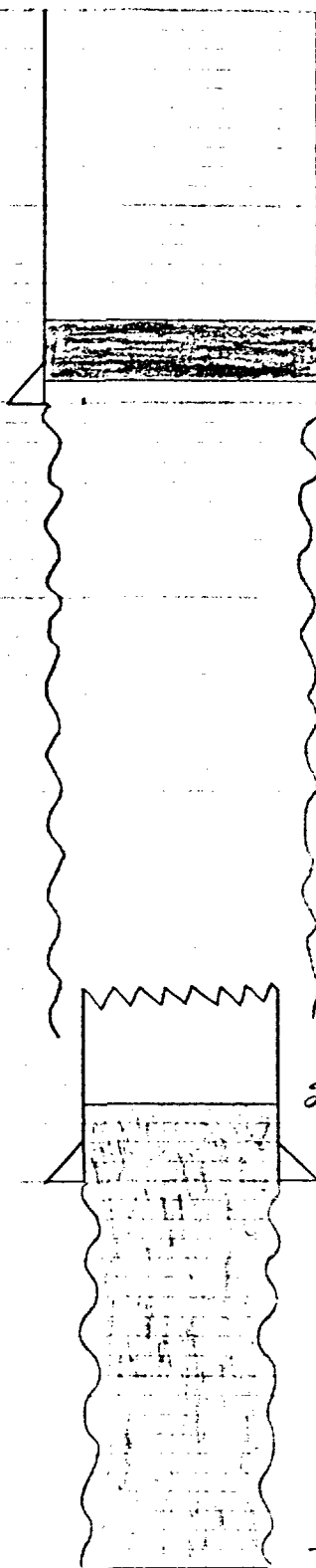
TD @ 3665'

GEORGE P. LIVERMORE, INC.

R.W. COWDEN NO. 4

ULN, SEC. 30-T23S-R37E

P+A 7/50



10 SX Cement Plug 1185'-1208'

8 5/8 CSG. @ 1217' Cemented W/500 SXS.

Top cem. @ SURFACE

CUT 5 1/2" CSG. @ 3000' + Pilled

25 SX Cement Plug 3470'-3696'

5 1/2 CSG. @ 3498' Cemented W/525 SXS

Estimated cement top @ 3000'

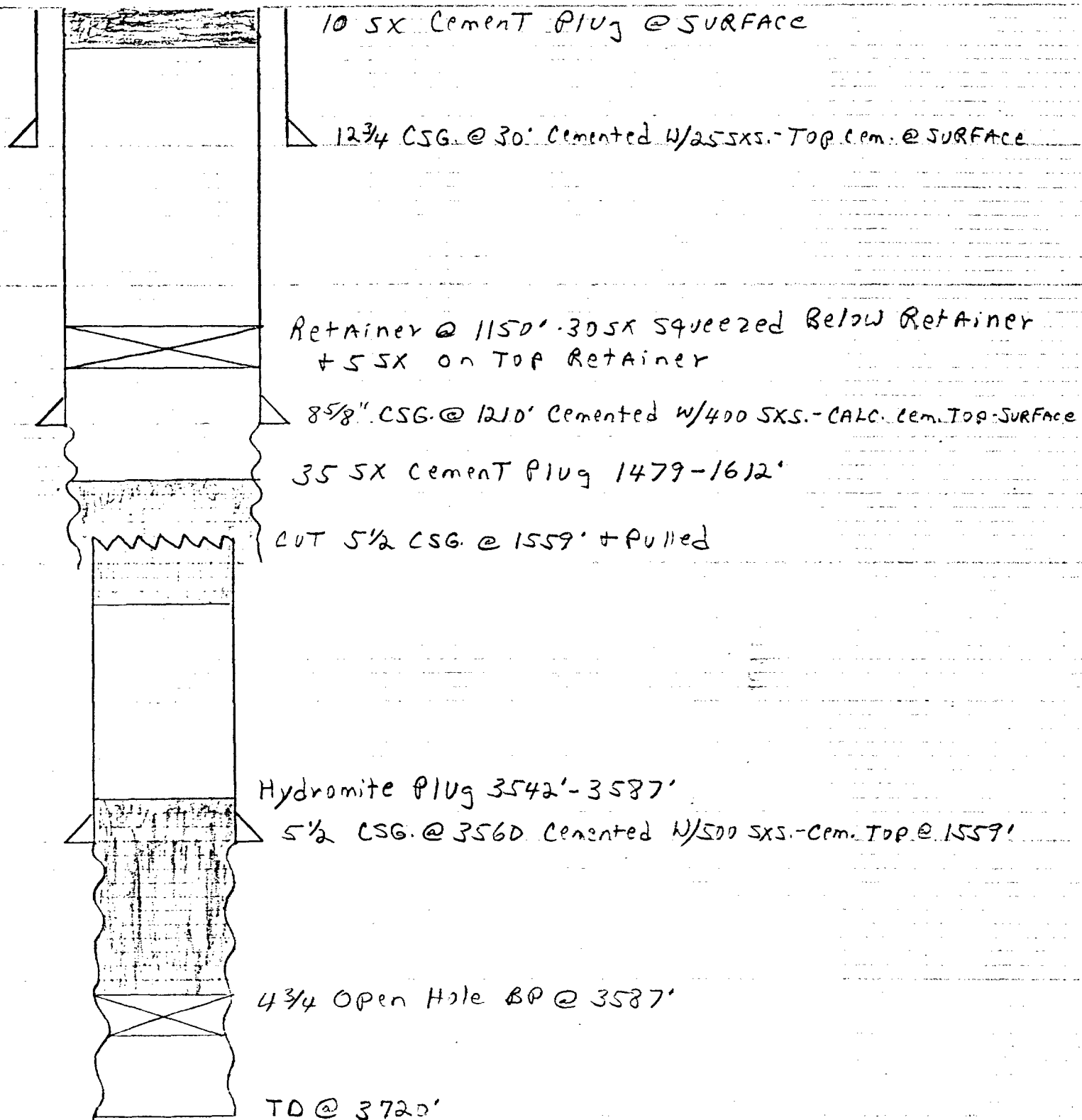
TD @ 3696'

ATLANTIC RICHFIELD CO.

E.L. STEELER W N NO. 2

UL N, Sec. 19-T235-R37E

P+A 11/77



GULF OIL CO.

M. K. STEWART NO. 1

UL J, Sec. 29-T23S-R37E

P+A 5/60

Cement Plug SURFACE - 25'

9 5/8 @ 301' Cemented w/225 SX - TOP Cem. @ SURFACE

40 SX Plug 2197' - 2497'

25 SX Plug 2667' - 2867'

100 SX Cement Plug 2772' - 3442'

2704
Perfs
3310

Cement on TO BP to 3442'
CIBP @ 3450'

5 1/2 @ 3502' Cemented w/750 SXS - CALC. Cem. TOP @ SURFACE

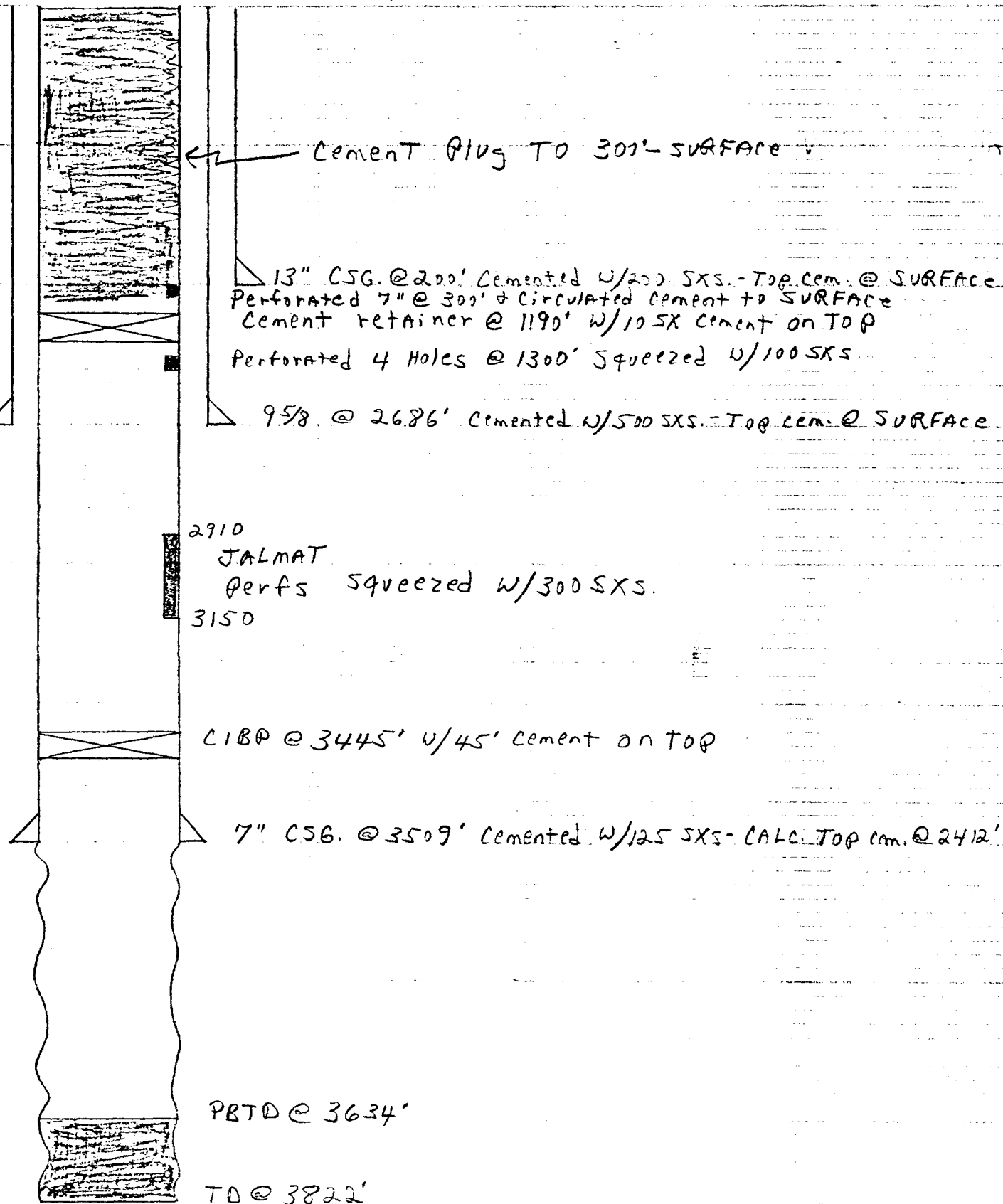
TD @ 3620'

ATLANTIC RICHFIELD CO.

E.L. STEELER WVN #1

UL #, Sec. 19-T235-R37E

P+A 11/77



WESTERN GAS COMPANY

COWDEN NO. 1

ULA, Sec. 31-T23S-R37E

P+A 9/40

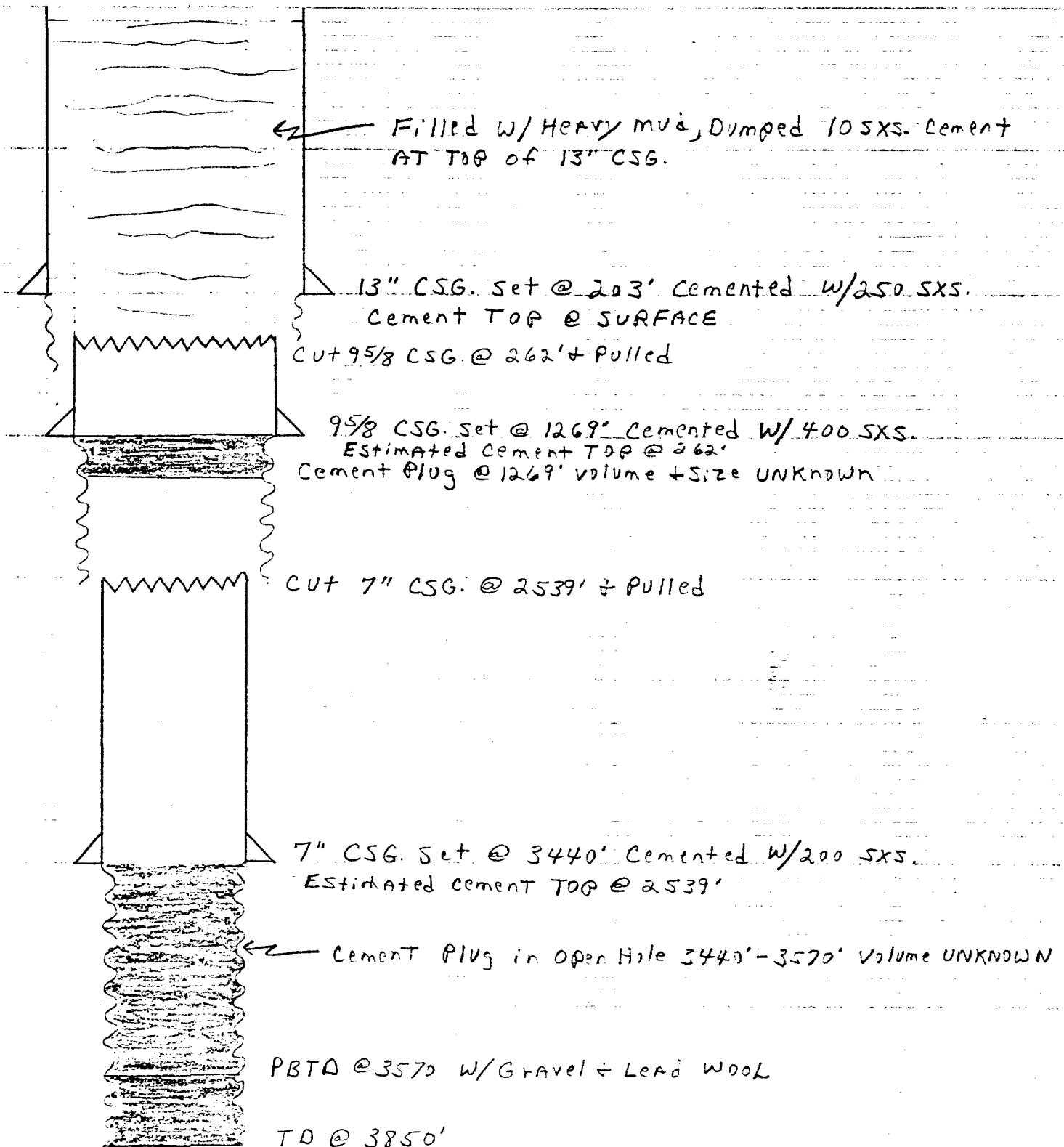


Exhibit VI
Analysis Of Injection Water

P. O. BOX 1468
MONAHANS, TEXAS 79756
PHONE 943-3234 OR 563-1040

Martin Water Laboratories, Inc.
RESULT OF WATER ANALYSES

731 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

LABORATORY NO. 27833
TO: Mr. Dale Crockett
P.O. Box 730, Hobbs, New Mexico
SAMPLE RECEIVED 2-6-78
RESULTS REPORTED 2-13-78

COMPANY Getty Oil Company LEASE Myers Langlie Mattix Unit
FIELD OR POOL Langlie Mattix
SECTION BLOCK SURVEY COUNTY Lea STATE New Mexico
SOURCE OF SAMPLE AND DATE TAKEN:

- NO. 1 Reef water - taken from raw water line. 2-6-73
NO. 2 Composite produced water - taken from transfer pump. 2-6-73
NO. 3 Injection water - taken from input #144 (near injection pump discharge). 2-6-78
NO. 4 Injection water - taken from input #171. 2-6-78

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0095	1.0184	1.0104	1.0093
pH When Sampled	6.5	8.1	6.6	6.6
pH When Received	6.56	7.91	6.67	6.60
Bicarbonate as HCO ₃	1.141	1.220	1.159	1.171
Supersaturation as CaCO ₃	5	120	30	0
Undersaturation as CaCO ₃	--	--		--
Total Hardness as CaCO ₃	3.200	6.400	3.500	3.400
Calcium as Ca	620	640	640	600
Magnesium as Mg	401	1.166	462	462
Sodium and/or Potassium	3.202	6.499	3.597	3.177
Sulfate as SO ₄	1.456	1.927	1.497	1.476
Chloride as Cl	5.468	12.428	6.250	5.539
Iron as Fe	0.26	9.6	1.9	0.85
Barium as Ba	0	0	0	0
Turbidity, Electric	8	214	85	25
Color as Pt	20	376	156	53
Total Solids, Calculated	12,288	23,880	13,605	12,425
Temperature °F.	82	54	75	74
Carbon Dioxide, Calculated	593	10	475	480
Dissolved Oxygen, Winkler	0.0	0.0	0.0	0.0
Hydrogen Sulfide	900	325	850	900
Resistivity, ohms/cm at 77° F.	0.550	0.310	0.530	0.550
Suspended Oil	5	355	45	11
Filtrable Solids as mg/l	1.5	79.4	29.3	9.4
Volume Filtered, ml	10,000	340	800	2,000

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks In regard to matters brought up in our letter of November 10, 1977, these results are significant in that they show the Reef water to be back to normal; no calcium carbonate scaling tendencies indicated; and no sand identified in the filtrable solids. We are continuing to show a prominent excess of suspended oil and accompanying filtrable solids at the transfer pump, thereby indicating a continuation of interface material in the composite produced water. This is the only condition that has again appeared; therefore, we would suggest only to concentrate efforts on flushing off interface material at all points prior to the transfer pump.

Form No. 3

cc: Mr. F. J. Petro, Midland

By

Waylan C. Martin, M. A.

Exhibit VII
List Of Available Instantaneous
Shut-In Pressures After Fracture
Treating Myers Langlie Mattix Unit Wells

PRESSURE INFORMATION

Myers Langlie Mattix Unit
Well No.

Instantaneous Shut-In Pressure
PSIG

9
10
13
14
32
33
35
47
50
55
56
58
65
74
77
78
83
84
86
87
88
89
93
110
111
119
121
133
134
141
142
152
156
159
169
170
171
177
178
191
194
199
201

1225
1225

13475

9900
225

8-1000 - 8000
9-1125 10125
11-1225 13475
4-1300 5200
2-1500 3000

38400

1170
34 39800
34

58
34

2400
238

1000
1000
~~1800~~
1500
1250X
1300X
1150✓
1200X
1200X
1150✓
~~2000~~
1100✓
~~900~~
1150✓
~~700~~
1200X
~~2400~~
1500
1200X
1000
1200X
1200X
~~900~~
1000
~~800~~
1000
~~1600~~
1200X
1150✓
1000
1300X
1150✓
1100✓
1200X
1100✓
1300X
1000
1300X
1250X
~~1900~~
1100✓
1200X
1000
1200 PSIG Average

JOHN WEST ENGINEERING CO.
Step Rate Injection Test

Well Name M L M U No: 165
CO. Name TEXACO PRODUCING CO.

Date 9-29-88

Remarks	Time	Tbg. Press.	Rate B P D	Total	B H P	Tbg. Press.	Rate G P M	HEAD LOSS
Begin Pumping	9:20							
	9:25	636.7	63.3	.80	2203.2			
	9:30	643.3	60.48	1.01	2204			
RATE I	9:35	649.8	46.08	1.17	2212.9	649.66	1.65	.14
			56.64					
	9:40	721.5	144.0	1.67	2268.6			
	9:45	734.5	120.96	2.09	2281.2			
RATE II	9:50	730.9	118.08	2.50	2286.4	730.26	3.72	.64
			127.68					
	9:55	801.3	175.68	3.11	2330.9			
	10:00	774.5	178.56	3.73	2342.8			
RATE III	10:05	800.3	172.80	4.33	2357.6	799.15	5.12	1.15
			175.68					
	10:10	863	216.00	5.08	2410.40			
	10:15	882.3	213.12	5.82	2427.50			
RATE IV	10:20	900.2	204.48	6.53	2444.50	898.58	6.16	1.62
			211.20					
	10:25	951.4	282.24	7.51	2494.50			
	10:30	960.3	270.72	8.45	2512.40			
RATE V	10:35	983.3	276.48	9.41	2521	980.63	8.06	2.67
			276.48					
	10:40	1040.9	334.08	10.57	2587.6			
	10:45	1069.1	325.44	11.70	2599.60			
RATE VI	10:50	1074.3	325.44	12.83	2613.9	1070.63	9.58	3.67
			328.32					
	10:55	1107.6	383.04	14.16	265.20			
	11:00	1123.0	380.16	15.48	2667.0			
RATE VII	11:05	1138.4	385.92	16.82	2679.10	1133.52	11.17	4.88
			383.00					
	11:10	1176.8	455.04	18.40	2725.3			
	11:15	1216.5	429.12	19.89	2738.10			
RATE VIII	11:20	1206.2	423.36	21.36	2747.20	1200.00	12.71	6.20
			435.84					
	11:25	1245.9	512.64	23.14	2782.40			
	11:30	1254.9	501.12	24.88	2789.20			
RATE IX	11:35	1254.9	498.24	26.61	2799.1	1246.71	14.70	8.11
			504.0					

JOHN WEST ENGINEERING CO.
Step Rate Injection Test

Well Name M L M U No: 165

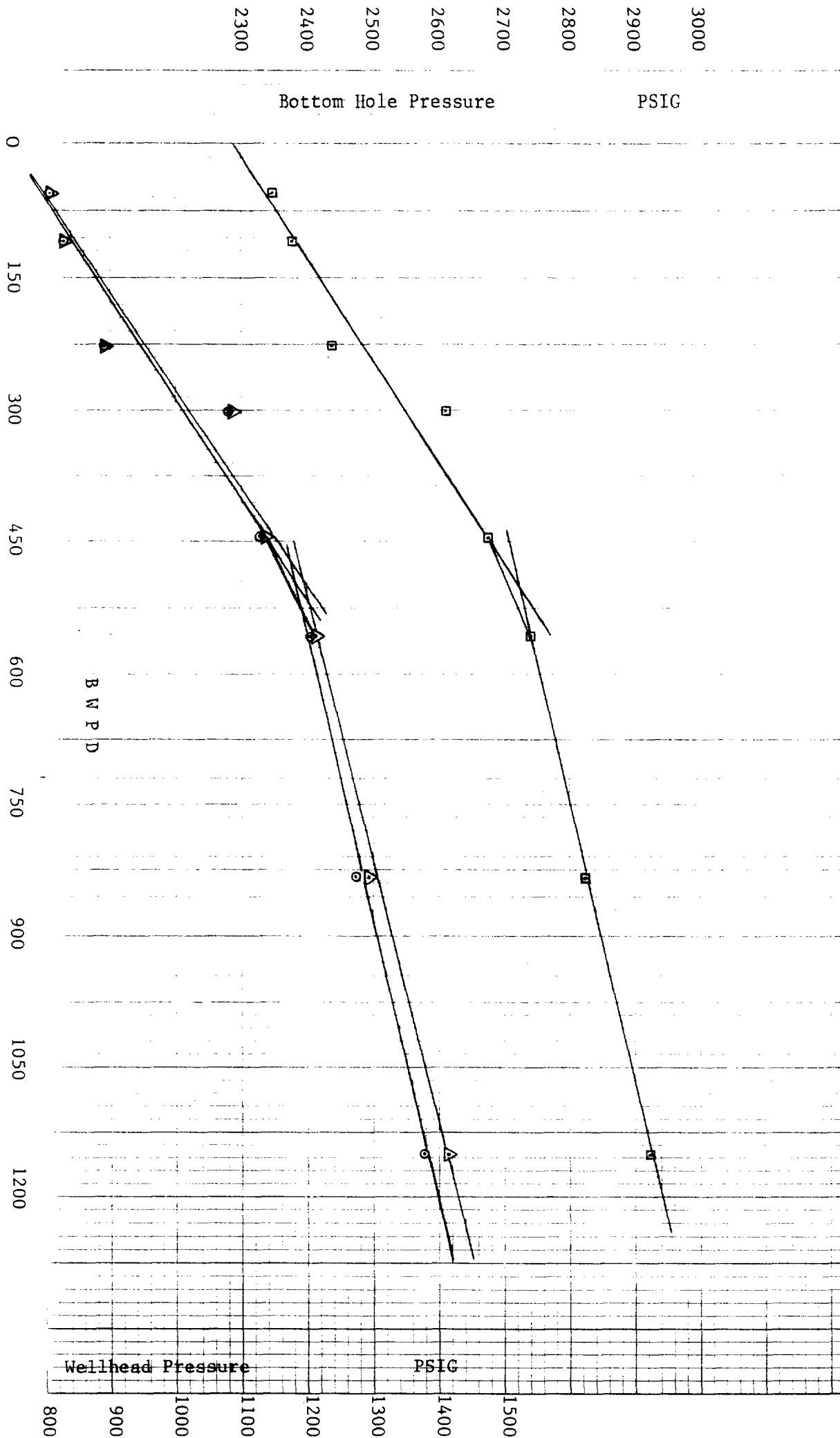
Date 9-29-88

CO. Name TEXACO PRODUCING CO.

[illegible]

■ Bottom Hole Pressure @ 3,520 Feet
 ▲ Recorded Wellhead Pressure
 ○ Corrected Wellhead Pressure Based on 2 3/8" Tubing

TEXACO PRODUCING, INC.
 M L M U No. 183
 Step-rate Injection Test



JOHN WEST ENGINEERING CO.
Step Rate Injection Test

Well Name M L M U No. 183
CO. Name Texaco Producing, Inc.

Date October 3, 1988

Remarks	Time	Tbg. Press.	Rate B P D	Total	B H P	Tbg. Press.	Rate G P M	HEAD LOSS
	11:35 AM	760.5		0	2310.2			
	11:40	792.3	54.72	.19	2327.3			
	11:45	790.8	60.48	.40	2336.9			
Rate I	11:50	806.0	54.72	.59	2345.0	805.86	1.65	.14
			56.64					
	11:55 AM	813.5	112.32	.98	2359.9			
	12:00noon	821.1	109.44	1.36	2370.4			
Rate II	12:05 PM	828.9	100.80	1.71	2378.6	828.43	3.14	.47
			107.52					
	12:10	853.1	230.40	2.51	2407.5			
	12:15	878.6	224.64	3.29	2425.3			
Rate III	12:20	890.0	221.76	4.06	2439.8	888.13	6.58	1.87
			225.60					
	12:25	1046.6	293.76	2.98	2585.3			
	12:30	1059.4	302.40	4.03	2602.3			
Rate IV	12:35	1085.0	308.16	5.10	2614.2	1081.80	8.79	3.20
			301.44					
	12:40	1120.9	460.80	6.70	2644.0			
	12:45	1134.8	443.52	8.24	2662.0			
Rate V	12:50	1137.3	440.64	9.77	2676.4	1130.64	13.08	6.66
			448.32					
	12:55	1159.1	483.84	11.45	2698.1			
	1:00	1185.1	584.64	13.48	2720.6			
Rate VI	1:05	1213.5	607.68	15.58	2740.2	1203.49	16.30	10.01
			558.72	Changed Pumps				
	1:10	1213.4	829.12	1.49	2749.4			
	1:15	1267.0	832.32	4.38	2794.2			
Rate VII	1:20	1293.8	838.08	7.29	2820.7	1272.84	24.30	20.96
			833.17					
	1:25	1366.9	1157.76	11.31	2870.3			
	1:30	1397.7	1160.64	15.34	2899.2			
Rate VIII	1:35	1416.8	1143.36	19.31	2922.5	1378.52	33.66	38.28
			1153.92					
Fall-off	1:40	1311.8			2861.1			
	1:45	1291.4			2839.5			