CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY	THE PURE OIL COMPANY	DATE ON	8/14/56
WELL	JICARILLA APACHE NO. 1	DATE OFF	8/16/56
FIELD	WILDCAT	FORMATION	AS NOTED
COUNTY	RIO ARRIBA	STATE	NEW MEX.
LOCATION	1750'FSL, 1650'FWL SEC 25-24N-4W		

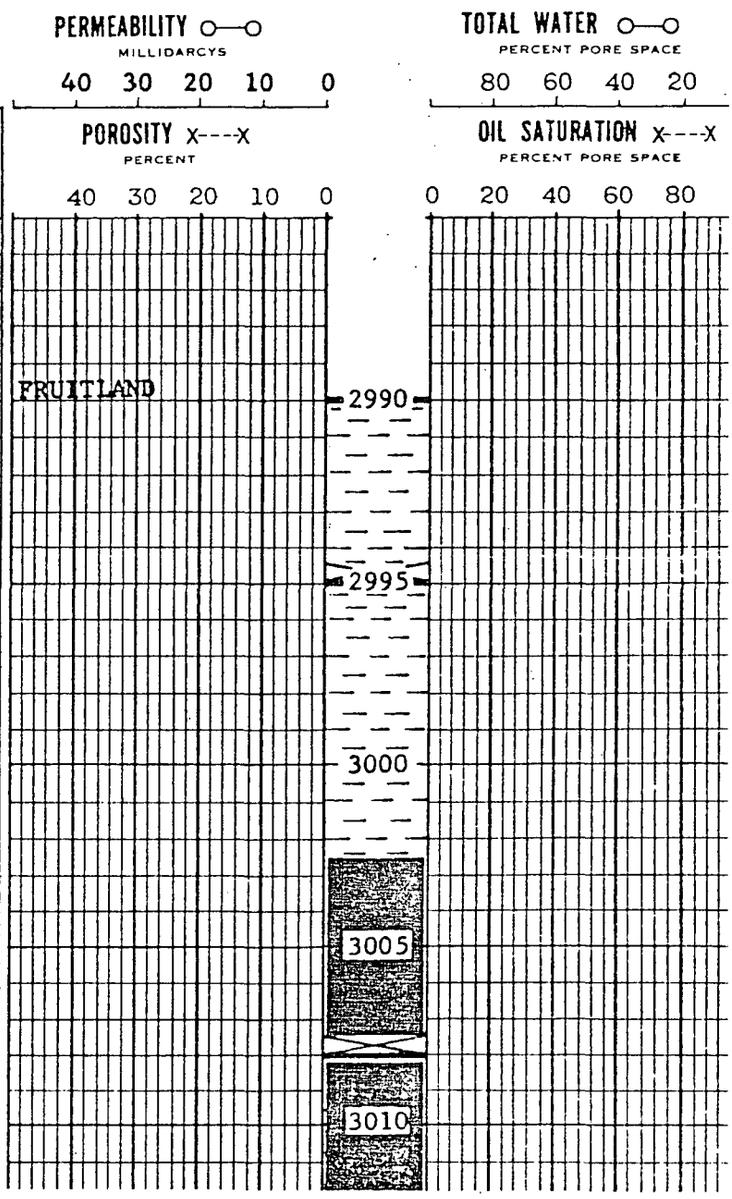
FILE NO.	RP-3-318		
ENGRS.	GAH, SR, RY, LM		
ELEV.	7044' DF		
DRLG. FLD.	WATER BASE MUD	CORES	WIRE LINE
REMARKS	SAMPLED BY CLI ENGINEER.		

SAND LIMESTONE CONGLOMERATE CHERT
SHALE DOLOMITE COAL

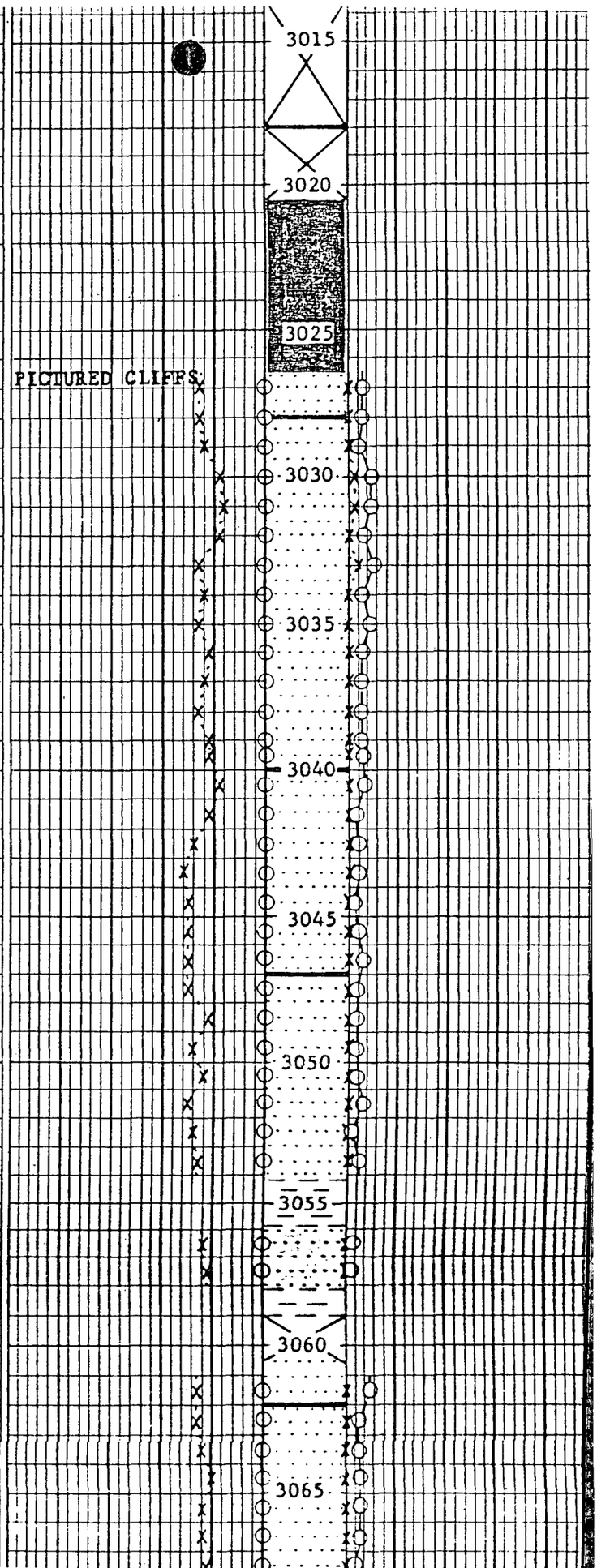
TABULAR DATA and INTERPRETATION

NUMBER	DEPTH FEET	PERM. MD.	POROSITY %	RESIDUAL SATURATION % PORE SPACE			PROD.
				OIL	TOTAL WATER		

COMPLETION COREGRAPH



3027.0	0.01	13.1	0.0	93.8		WATER
28.0	<0.01	13.1	0.0	93.8		
29.0	<0.01	12.3	0.0	96.0		
30.0	<0.01	8.7	2.3	89.8		
31.0	<0.01	8.3	2.4	91.5		
32.0	<0.01	8.7	0.0	94.3		
33.0	0.01	12.8	3.9	89.0		WATER
34.0	<0.01	12.4	0.0	94.4		
35.0	0.01	12.9	0.0	91.4		WATER
36.0	<0.01	10.8	0.0	94.4		
37.0	0.01	11.6	0.0	94.8		WATER
38.0	0.02	12.8	0.0	95.4		WATER
39.0	0.01	10.9	0.0	95.4		WATER
39.5	0.02	10.8	0.0	94.5		WATER
40.5	0.01	9.2	0.0	93.5		WATER
41.5	0.01	10.7	0.0	97.2		WATER
42.5	0.01	13.6	0.0	96.4		WATER
43.5	0.02	15.6	0.0	96.2		WATER
44.5	0.02	15.4	0.0	97.9		WATER
45.5	0.02	14.9	0.0	96.0		WATER
46.5	0.03	15.0	0.0	94.0		WATER
47.5	0.05	14.6	0.0	97.3		WATER
48.5	0.05	10.9	0.0	97.2		WATER
49.5	0.07	13.9	0.0	97.1		WATER
50.5	0.05	11.9	0.0	96.8		WATER
51.5	0.10	15.3	0.0	94.2		WATER
52.5	0.02	14.2	0.0	98.6		WATER
3053.5	<0.01	13.2	0.0	94.7		
3056.5	<0.01	12.2	0.0	96.9		
3057.5	<0.01	11.0	0.0	98.2		
3061.5	0.03	12.6	0.0	90.5		WATER
62.5	0.05	12.9	0.0	94.7		WATER
63.5	0.03	11.9	0.0	94.2		WATER
64.5	0.03	10.4	0.0	94.2		WATER
65.5	0.03	12.2	0.0	94.4		WATER
66.5	0.03	12.4	0.0	93.7		WATER



5	50.5	0.05	11.9	0.0	96.8		WATER
26	51.5	0.10	15.3	0.0	94.2		WATER
27	52.5	0.02	14.2	0.0	96.6		WATER
28	3053.5	<0.01	13.2	0.0	94.7		
29	3056.5	<0.01	12.2	0.0	96.9		
30	3057.5	<0.01	11.0	0.0	98.2		
31	3061.5	0.03	12.6	0.0	90.5		WATER
32	62.5	0.05	12.9	0.0	94.7		WATER
3	63.5	0.03	11.9	0.0	94.2		WATER
4	64.5	0.03	10.4	0.0	94.2		WATER
5	65.5	0.03	12.2	0.0	94.4		WATER
6	66.5	0.03	12.4	0.0	93.7		WATER
7	67.5	0.03	10.8	0.0	96.5		WATER
8	68.5	<0.01	6.3	0.0	93.7		
9	69.5	0.02	11.8	0.0	93.3		WATER
0	70.5	0.04	13.0	0.0	94.8		WATER
1	71.5	0.03	12.0	0.0	95.0		WATER
2	72.5	0.04	13.5	0.0	94.0		WATER
3	73.5	0.05	13.5	0.0	95.0		WATER
4	74.5	<0.01	7.8	0.0	95.0		
5	75.5	<0.01	10.2	0.0	96.1		
6	76.5	<0.01	9.3	0.0	92.5		
7	77.5	0.03	16.0	0.0	95.6		WATER
8	78.5	<0.01	13.9	0.0	92.9		
9	79.5	<0.01	11.6	0.0	98.3		
0	80.5	0.01	15.7	0.0	95.0		WATER
1	81.5	0.03	14.4	0.0	96.6		WATER
2	82.5	0.01	14.1	0.0	97.3		WATER
3	83.5	0.02	11.2	0.0	96.5		WATER
4	84.5	0.02	12.7	0.0	96.0		WATER
5	85.5	0.02	12.5	0.0	97.7		WATER
6	86.5	0.02	9.4	0.0	95.8		WATER
	87.5	0.02	13.8	0.0	96.5		WATER
8	88.5	0.02	9.2	0.0	97.9		WATER
	3089.5	0.03	14.1	0.0	91.5		WATER

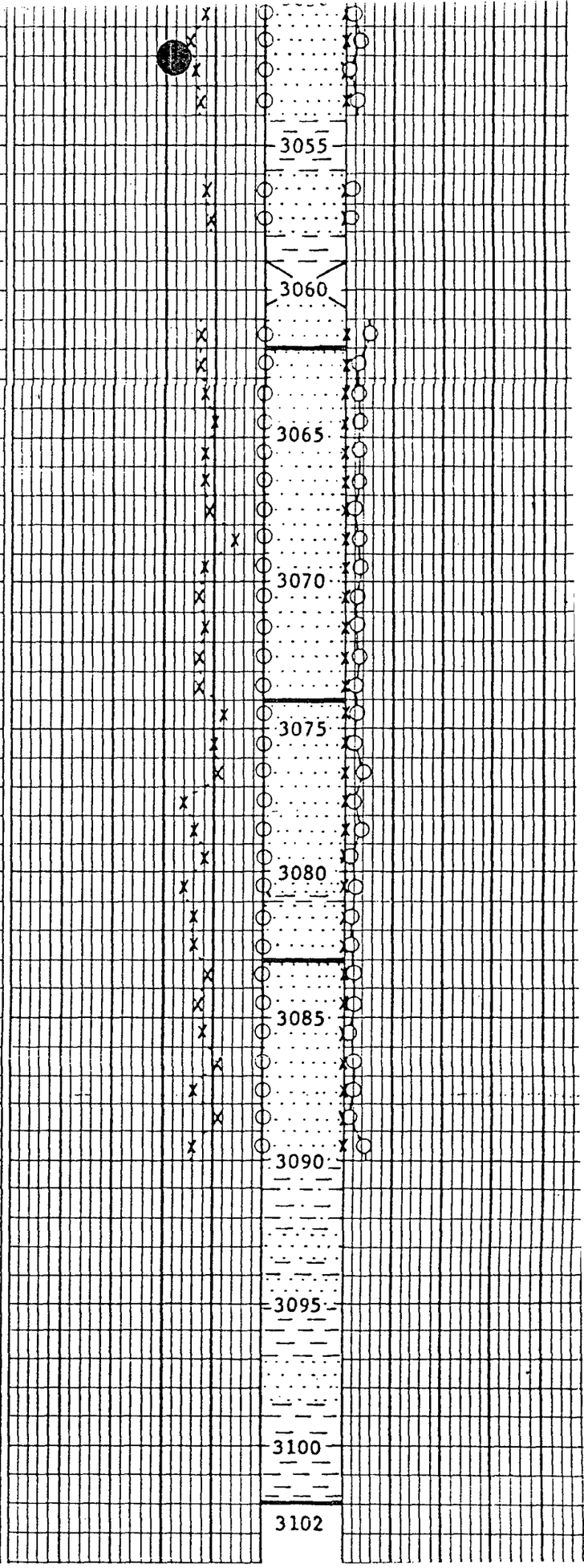


EXHIBIT NO. 16

COMPANY: Amerada Petroleum Corporation
WELL: Jicarilla Apache A No. 3

SE/SW, Section 23, Township 25 North, Range 5 West
Rio Arriba County, New Mexico

Pictured Cliffs Formation Core Data

Well not completed in Pictured Cliffs
Pictured Cliffs Interval Chosen - 2914-2954

Depth (ft)	Sample Footage (ft)	Horizontal Permeability (md)
2914-2915	1	0.00
2915-2916	1	0.00
2916-2917	1	0.04
2917-2918	1	0.00
2918-2919	1	0.00
2919-2920	1	0.00
2920-2921	1	0.00
2921-2922	1	0.00
2922-2923	1	0.00
2923-2924	1	0.00
2924-2925	1	0.00
2925-2926	1	0.00
2926-2927	1	0.00
2927-2928	1	0.00
2928-2929	1	0.00
2929-2930	1	0.00
2930-2931	1	0.00
2931-2932	1	0.00
2932-2933	1	0.00
2933-2934	1	0.00
2934-2935	1	0.00
2935-2936	1	0.00
2936-2937	1	0.00
2937-2938	1	0.00
2938-2939	1	0.00
2939-2940	1	0.00
2940-2941	1	0.00
2941-2942	1	0.00
2942-2943	1	0.00
2943-2944	1	0.00
2944-2945	1	0.00
2945-2946	1	0.00
2946-2947	1	0.00
2947-2948	1	0.00
2948-2949	1	0.00
2949-2950	1	0.00
2950-2951	1	0.00
2951-2952	1	0.00
2952-2953	1	0.00
2953-2954	1	0.00
	40	0.04

Average laboratory permeability = $\frac{0.04}{40}$ = 0.00 md

CORE LABORATORIES, INC. *Petroleum Reservoir Engineeri*

COMPANY AMERADA PETROLEUM CORPORATION — DATE ON 10/7/55 — FILE NO. RP-3-20

WELL JICARILLA APACHE "A" NO. 3 — DATE OFF 10/7/55 — ENGRS. WER, WJ

FIELD WILDCAT — FORMATION PICTURED CLIFFS — ELEV.

COUNTY RIO ARRIBA — STATE NEW MEXICO — DRLG. FLD. WATER BASE MUD — CORES DIAMOND CONVENT

LOCATION 990' FSL, 1650 FWL, SEC. 23-25N-5W — REMARKS SERVICE NO. 4

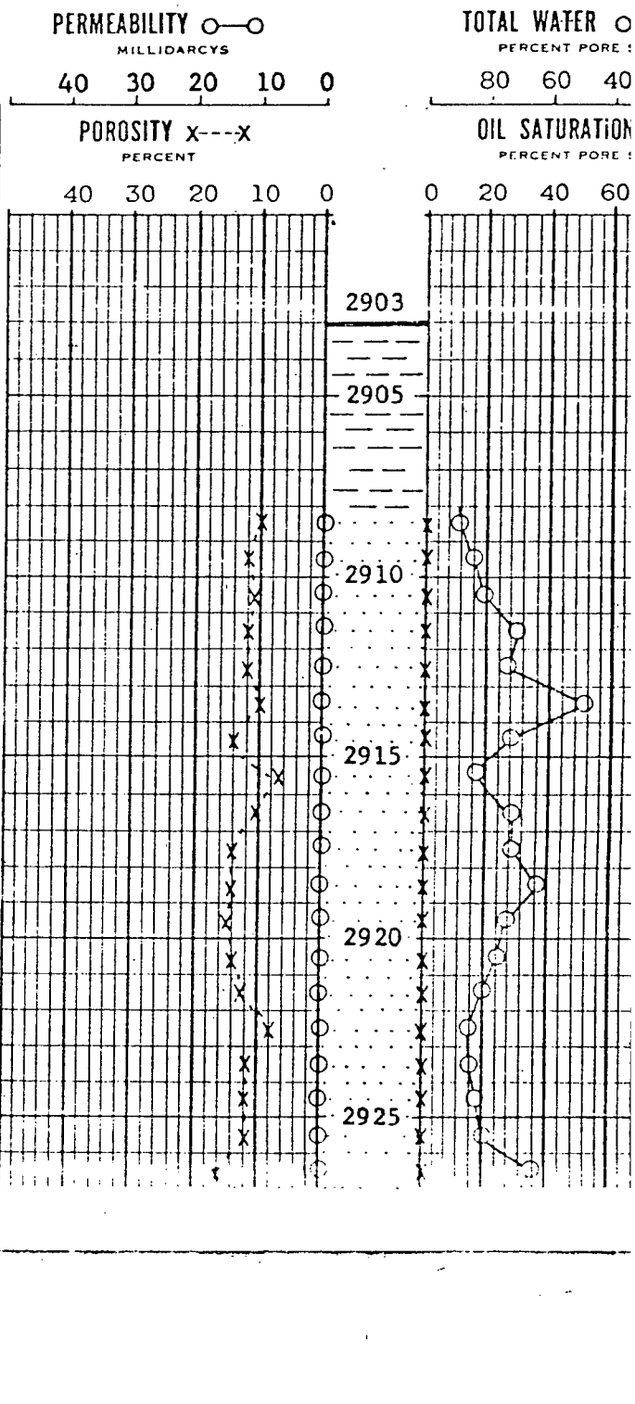
SAND · LIMESTONE · CONGLOMERATE · CHERT

SHALE · DOLOMITE

TABULAR DATA and INTERPRETATION

SAMPLE NUMBER	DEPTH FEET	PERM. MD. AIR	POROSITY %	RESIDUAL SATURATION % PORE SPACE OIL	RESIDUAL SATURATION % PORE SPACE TOTAL WATER	CHLORIDE PPM	PROD
1	2908.5	0.0	9.7	0.0	88.6		
2	09.5	0.0	11.7	0.0	83.8		
3	10.5	0.0	11.4	0.0	80.7		
4	11.5	0.0	11.6	0.0	69.9		
5	12.5	0.0	11.6	0.0	72.5	16,600	
6	13.5	0.0	10.4	0.0	49.1		
7	14.5	0.0	13.7	0.0	71.5		
8	15.5	0.0	7.0	0.0	82.9		
9	16.5	0.04	10.5	0.0	71.4		
10	17.5	0.0	14.0	0.0	71.4		
11	18.5	0.0	14.5	0.0	62.8		
12	19.5	0.0	15.0	0.0	72.0		
13	20.5	0.0	13.9	0.0	74.9		
14	21.5	0.0	12.8	0.0	81.4		
15	22.5	0.0	8.2	0.0	85.3	13,900	
16	23.5	0.0	12.3	0.0	83.0		
17	24.5	0.0	12.4	0.0	82.3		
18	25.5	0.0	11.7	0.0	79.5		
19	26.5	0.0	16.1	0.0	64.6		

COMPLETION COREGRAPH



7	14.5	0.0	13.7	0.0	71.1	
8	15.5	0.0	7.0	0.0	82.9	
9	16.5	0.04	10.5	0.0	71.4	
10	17.5	0.0	14.0	0.0	71.4	
11	18.5	0.0	14.5	0.0	62.8	
12	19.5	0.0	15.0	0.0	72.0	
13	20.5	0.0	13.9	0.0	74.9	
14	21.5	0.0	12.8	0.0	81.4	
15	22.5	0.0	8.2	0.0	85.3	13,900
16	23.5	0.0	12.3	0.0	83.0	
17	24.5	0.0	12.4	0.0	82.3	
18	25.5	0.0	11.7	0.0	79.5	
19	26.5	0.0	16.1	0.0	64.6	
20	27.5	0.0	15.1	0.0	68.9	
21	28.5	0.0	14.5	0.0	66.2	
22	29.5	0.0	11.3	0.0	86.7	
23	30.5	0.0	9.8	0.0	83.7	
24	31.5	0.0	10.8	0.0	76.9	
25	32.5	0.0	15.8	0.0	55.1	9,550
26	33.5	0.0	12.0	0.0	69.3	
27	34.5	0.0	11.7	0.0	82.1	
28	35.5	0.0	7.5	0.0	78.5	
29	36.5	0.0	12.3	0.0	74.0	
30	37.5	0.0	10.6	0.0	82.1	
31	38.5	0.0	10.5	0.0	82.8	
32	39.5	0.0	12.5	0.0	78.4	
33	40.5	0.0	9.6	0.0	83.4	
34	41.5	0.0	8.8	0.0	73.9	
35	42.5	0.0	7.9	0.0	78.5	14,275
36	43.5	0.0	7.6	0.0	73.7	
37	44.5	0.0	11.6	0.0	76.8	
38	45.5	0.0	11.4	0.0	80.7	
39	46.5	0.0	14.4	0.0	63.1	
40	47.5	0.0	11.6	0.0	81.1	
41	48.5	0.0	15.4	0.0	70.2	
42	49.5	0.0	13.9	0.0	76.3	
43	50.5	0.0	14.1	0.0	71.0	
44	51.5	0.0	14.2	0.0	74.7	
45	52.5	0.0	14.5	0.0	78.7	12,300
46	53.5	0.0	15.0	0.0	79.4	
47	54.5	0.0	11.7	0.0	78.6	
48	55.5	0.0	9.4	0.0	83.1	
49	56.5	0.0	13.6	0.0	83.1	
50	57.5	0.0	13.4	0.0	80.6	
51	58.5	0.0	15.9	0.0	71.0	
52	59.5	0.0	15.4	0.0	73.4	
53	2960.5	0.0	15.3	0.0	66.7