

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources DepartmentOIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505Form C-102
Revised March 17, 1999Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-31104	² Pool Code	³ Pool Name Foster Draw: Delaware Oil
⁴ Property Code	⁵ Property Name Avalon "1" Federal	⁶ Well Number #2
⁷ OGRID No. 002678	⁸ Operator Name Bonneville Fuels Corporation	⁹ Elevation 3191 GL

¹⁰ Surface Location

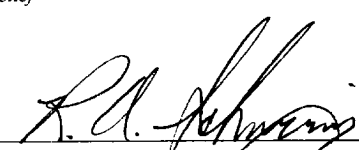
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Lot 31	1	21 S.	26 E.		2686'	South	1999'	East	Eddy

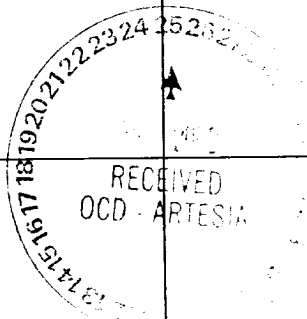
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Lot 34	1	21 S.	26 E.		1508'	South	1653'	East	Eddy

¹² Dedicated Acres 41.07 Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. Administrative Order: NSL-4425 (NSBHL)
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16				¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>  Signature <u>R. A. Schwering, P.E.</u> Printed Name <u>Production Manager</u> Title <u>March 21, 2002</u> Date
				¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> Signature and Seal of Professional Surveyor: Certificate Number

Acreage
Dedication
In
Red
Hachures

LOT 34

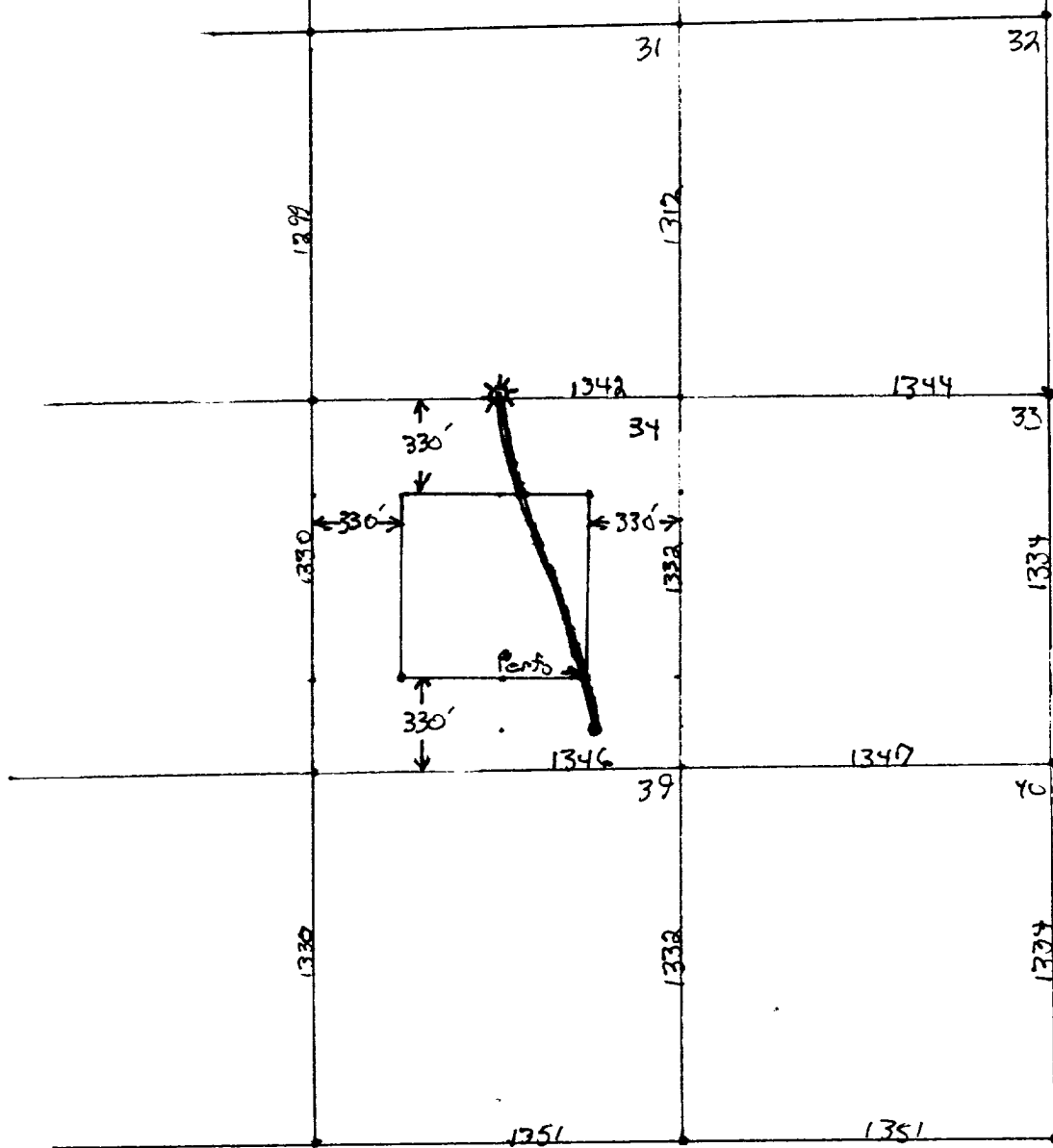
41.07 ac.

Actual Trajectory,

Wellbore

Avalon 1 Fed. #2

Orthodox Window : Enter @ 354 South of Surf. Location
Exit @ 1025.2' South of Surf. Location



FSL

FEL

1320'

Surface Location :	2586'	1999'
Enter Lot 34 :	2662'	2000'
Enter Orthodox Window:	2332'	1912'
Top Perfs	1686.3'	1696.3'
Bottom Perfs	1684.2'	1696'
Exit Orthodox Window:	1661.5'	1690'
Bottom-Hole Location:	1508'	1653'

R. Schuyler, PE

Sperry-Sun Drilling Services

Survey Report for Federal 1 Avalon # 2
Federal #1 Avalon #2

Bonneville Fuels Corp.
New Mexico

Surface @ 2686' FSL : 24' to Lot 34
F 1999' FEL

Eddy County
Sec. 1-T21S-R26E

Lot 31 ↑
Cross Line:
Lot 34 ↓

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00	
1800.00	0.000	0.000	1800.00	0.00 N	0.00 E	0.00	0.00
1850.00	0.900	280.100	1850.00	0.07 N	0.39 W	-0.16	1.80
1881.00	0.800	260.500	1880.99	0.08 N	0.84 W	-0.28	0.99
1945.00	1.400	210.600	1944.98	0.67 S	1.68 W	0.24	1.68
2040.00	4.000	184.900	2039.87	4.97 S	2.55 W	4.20	2.95
2072.00	5.400	182.500	2071.76	7.59 S	2.71 W	6.70	4.42
2103.00	6.600	180.300	2102.59	10.83 S	2.79 W	9.82	3.94
2135.00	8.400	174.900	2134.32	14.99 S	2.59 W	13.91	6.03
2167.00	11.800	169.900	2165.82	20.55 S	1.81 W	19.49	10.96
2182.40 MD			2181.33 TVD	24.5	0.78 W	23.01	
2199.00	14.700	166.700	2196.96	27.72 S	0.30 W	26.81	9.34
2230.00	18.000	166.400	2226.71	36.21 S	1.73 E	35.54	10.65
2262.00	21.200	165.900	2256.85	46.63 S	4.31 E	46.27	10.01
2293.00	23.700	163.800	2285.50	58.05 S	7.41 E	58.10	8.47
2325.00	26.600	163.000	2314.46	71.08 S	11.30 E	71.69	9.12
2356.00	29.200	163.600	2341.86	84.97 S	15.47 E	86.18	8.44
2388.00	31.400	162.800	2369.48	100.42 S	20.13 E	102.30	6.99
2420.00	34.100	163.100	2396.39	116.97 S	25.21 E	119.59	8.45
2451.00	36.400	163.200	2421.71	134.10 S	30.39 E	137.46	7.42
2482.00	38.600	166.500	2446.30	152.31 S	35.31 E	156.32	9.61
2514.00	40.900	167.300	2470.90	172.24 S	39.94 E	176.78	7.36
2546.00	43.000	167.800	2494.70	193.12 S	44.55 E	198.16	6.65
2578.00	45.500	166.600	2517.62	214.89 S	49.51 E	220.48	8.24
2610.00	46.500	167.100	2539.85	237.31 S	54.74 E	243.50	3.32
2642.00	46.500	166.400	2561.88	259.90 S	60.06 E	266.70	1.59
2673.00	46.900	164.500	2583.14	281.74 S	65.73 E	289.26	4.64
2705.00	46.800	165.400	2605.03	304.28 S	71.79 E	312.61	2.08
2736.00	45.700	166.400	2626.46	326.00 S	77.25 E	335.00	4.25
2767.00	45.600	167.800	2648.13	347.61 S	82.20 E	357.16	3.25
2776 MD			2654.5 TVD	369.93 S	87.13 E	380.01	1.12
2799.00	45.600	167.300	2670.52	392.25 S	92.26 E	402.91	1.28
2831.00	45.800	166.800	2692.87	413.95 S	97.41 E	425.21	1.47
2862.00	46.200	166.500	2714.41	436.48 S	102.74 E	448.36	1.30
2894.00	46.500	166.900	2736.49	459.11 S	108.38 E	471.68	4.51
2926.00	47.100	165.100	2758.40	481.60 S	114.36 E	494.95	2.81
2958.00	46.200	165.100	2780.37	503.83 S	120.40 E	517.99	1.64
2990.00	45.900	164.500	2802.58	525.45 S	126.34 E	540.39	2.67
3021.00	46.700	164.800	2823.99	547.90 S	132.67 E	563.71	2.58
3053.00	46.900	163.700	2845.90	570.07 S	139.53 E	586.88	4.79
3085.00	46.100	161.900	2867.93	591.62 S	147.26 E	609.67	7.79
3117.00	45.300	158.600	2890.28				

Lot 34:
Legal @
Below

Orthodox Wellbore
w/ 330' Setbacks

Continued...
RD [Signature]
DrillQuest 2.00.03

12 July, 2000 - 12:07

- 1 -

Enter Orthodox Window @ 2776' MD @ 2332' FSL & 1912' FEL
2654.5 TVD
2182.4 MD @ 2040' FSL & 1900' FEL

Sperry-Sun Drilling Services

Survey Report for Federal 1 Avalon # 2
Federal #1 Avalon #2

Bonneville Fuels Corp.
New Mexico

Eddy County
Sec. 1-T21S-R26E

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
3148.00	45.800	159.400	2911.99	612.28 S	155.19 E	631.64	2.45
3180.00	45.900	158.800	2934.28	633.73 S	163.38 E	654.44	1.38
3212.00	45.200	158.000	2956.69	654.97 S	171.79 E	677.09	2.82
3244.00	43.800	157.800	2979.51	675.75 S	180.23 E	699.30	4.40
3275.00	41.600	157.200	3002.29	695.17 S	188.27 E	720.09	7.22
3307.00	39.400	157.500	3026.62	714.35 S	196.27 E	740.64	6.90
3339.00	38.800	158.700	3051.46	733.07 S	203.80 E	760.63	3.02
3371.00	37.800	160.800	3076.57	751.68 S	210.67 E	780.35	5.13
3402.00	35.000	159.100	3101.52	768.96 S	216.97 E	798.64	9.60
3434.00	32.500	159.700	3128.13	785.60 S	223.22 E	816.31	7.88
3466.00	32.600	159.000	3155.10	801.71 S	229.30 E	833.41	1.22
3498.00	32.100	159.400	3182.13	817.71 S	235.38 E	850.42	1.70
3529.00	32.400	157.900	3208.35	833.12 S	241.40 E	866.83	2.76
3561.00	31.800	157.600	3235.46	848.86 S	247.84 E	883.66	1.94
3593.00	31.400	157.700	3262.71	864.36 S	254.21 E	900.25	1.26
3624.00	30.300	157.600	3289.33	879.07 S	260.26 E	915.98	3.55
3656.00	29.800	159.800	3317.03	893.99 S	266.08 E	931.88	3.78
3688.00	30.000	159.600	3344.77	908.95 S	271.62 E	947.74	0.70
3719.00	30.100	159.800	3371.60	923.51 S	277.00 E	963.17	0.46
3751.00	29.600	160.800	3399.35	938.51 S	282.37 E	979.02	2.20
3783.00	30.000	161.900	3427.12	953.58 S	287.46 E	994.87	2.12
3815.00	30.100	161.000	3454.82	968.77 S	292.55 E	1010.85	1.44
3846.00	29.700	162.000	3481.70	983.42 S	297.46 E	1026.26	2.06
3878.00	29.300	164.200	3509.55	998.49 S	302.04 E	1041.99	3.61
3909.00	28.900	166.100	3536.64	1013.07 S	305.90 E	1057.06	3.25
3936 MD			3560 TVO	1027.81 S	309.59 E	1072.26	3.47
3941.00	27.800	165.800	3564.80	1042.24 S	312.97 E	1087.08	3.29
3973.00	27.400	167.900	3593.16	1055.72 S	315.97 E	1100.88	1.38
4003.00	27.400	167.000	3619.79	1070.07 S	319.27 E	1115.61	0.14
4035.00	27.400	167.100	3648.20	1084.37 S	322.67 E	1130.31	1.47
4067.00	27.300	166.100	3676.62	1098.62 S	326.09 E	1144.96	1.19
4099.00	27.200	166.900	3705.07	1112.91 S	329.53 E	1159.66	1.48
4131.00	27.500	166.100	3733.50	1126.73 S	333.06 E	1173.92	1.48
4162.00	27.300	165.200	3761.02	1140.99 S	336.72 E	1188.65	1.31
4194.00	27.500	166.000	3789.43	1155.29 S	340.34 E	1203.40	0.66
4226.00	27.400	165.600	3817.83	1177.58 S	346.06 E	1226.41	0.00

Orthodox Wellbore
3/ 330' Setbacks

* Refs. →
Legal Above LOT 34

Bottom Hole @ : 1508' FSL & 1653' FEL
Exit Orthodox Window @ 3936' MD @ 1661.5' FSL & 1690' FEL
3560.4' TVO

Continued...
RA [Signature] RE

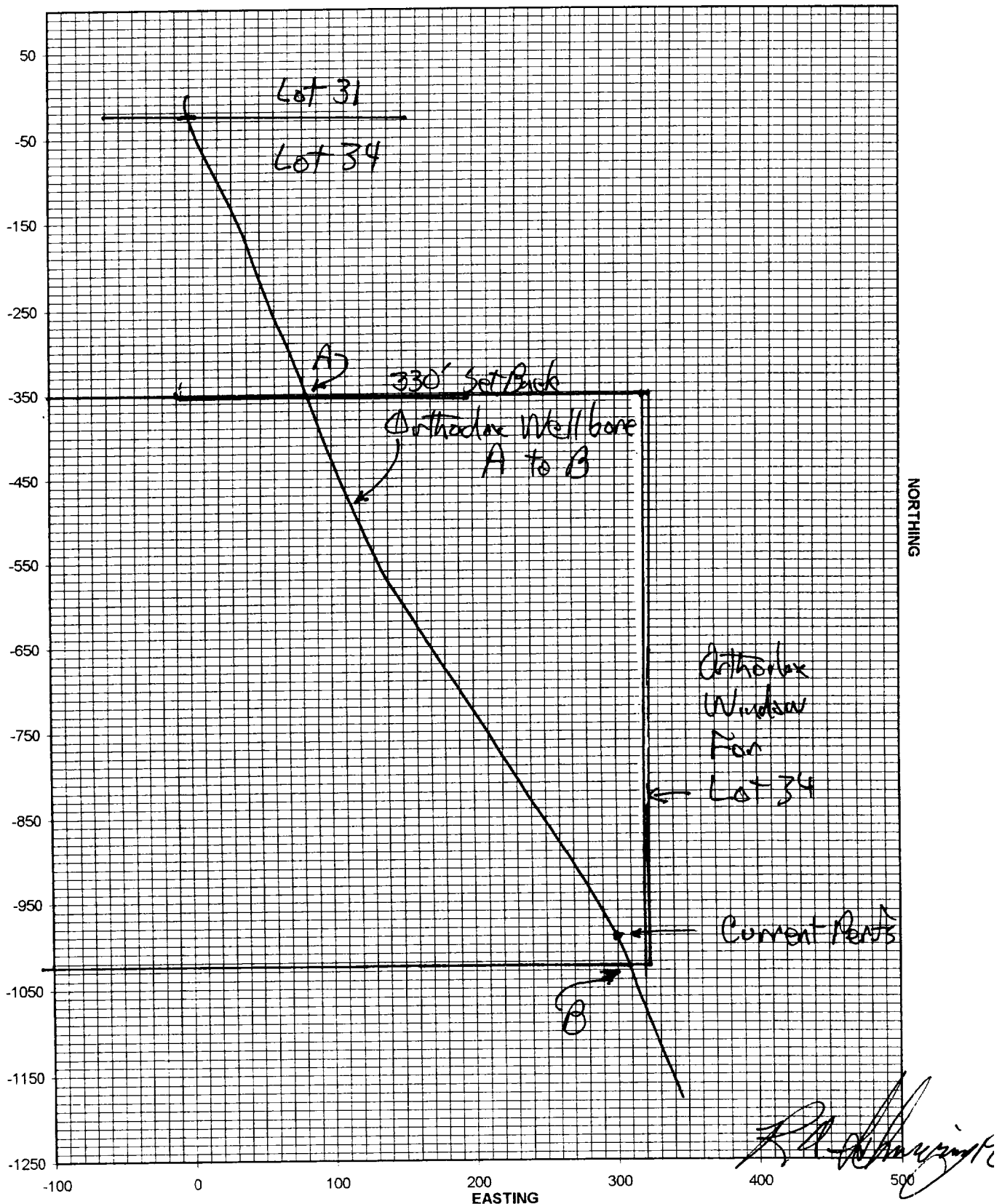
12 July, 2000 - 12:07

- 2 -

* Refs.: MD : 3883'-3886'
TVO : 3513'-3516'

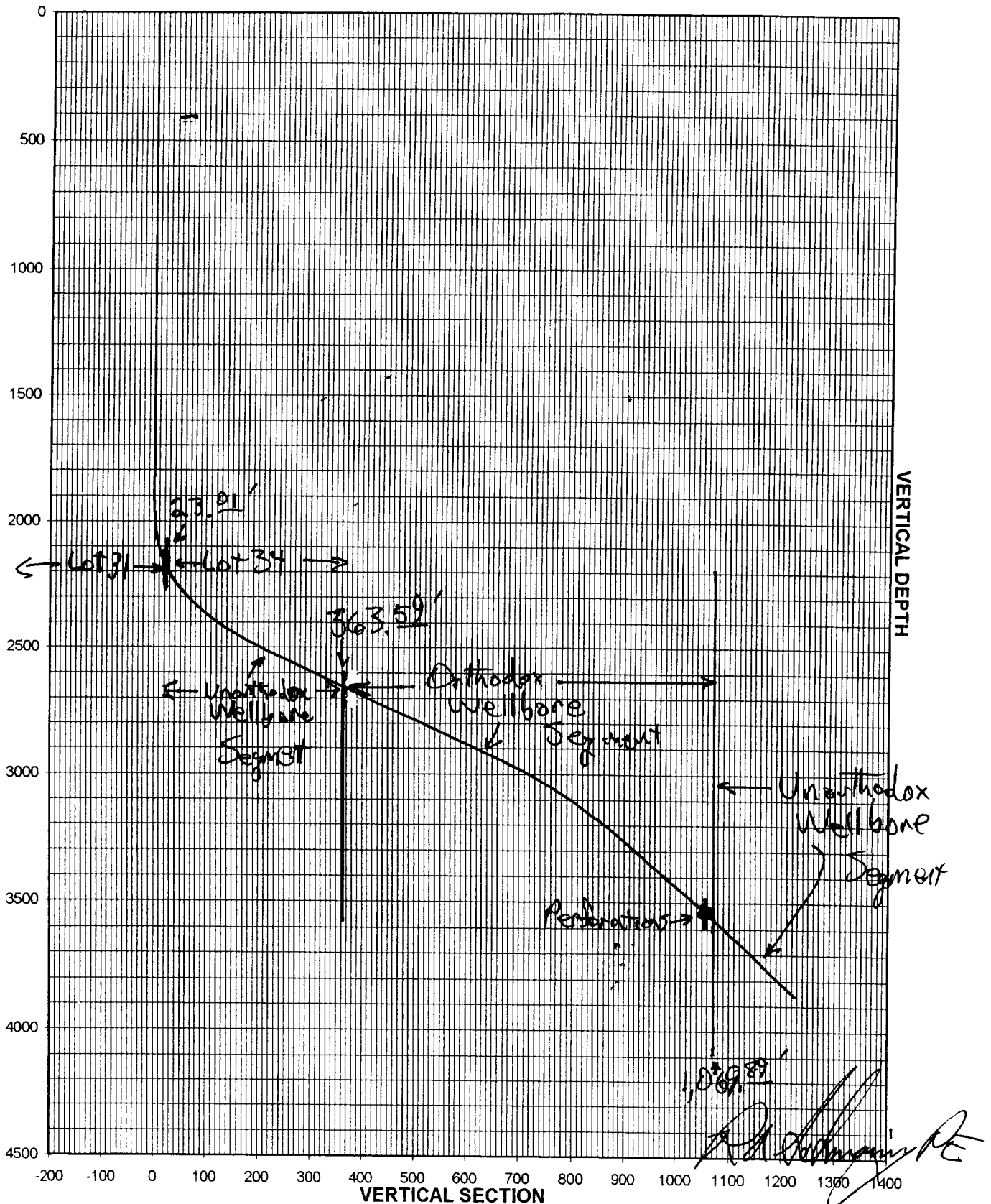
DRIQuest 2.00.03

Avalon 1 Fed. #2: Well Plan View



Perturbations Within Orthodox Window

Avalon 1 Fed. #2: Vertical Section



Perforations Within Orthodox Window