

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies
☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. 205 E. Bender, HOBBS, NM 88240		² OGRID Number 022351
⁴ Property Code 11123	⁵ Property Name NORTH VACUUM ABO WEST UNIT	³ API Number 3002524495
		⁶ Well No. 3

⁷ Surface Location									
Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
L	15	17S	34E		1980	SOUTH	660	WEST	LEA

⁸ Proposed 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
1/F	15	17S	34E		1980/3183	SOUTH	660/1863	WEST	LEA
⁹ Proposed Pool 1 North Vacuum Abo (unitized interval)					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Rotary or C.T. R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4058' DF
¹⁶ Multiple No	¹⁷ Proposed Depth 9003'	¹⁸ Formation Abo	¹⁹ Contractor Yale E Key	²⁰ Spud Date 03/15/98

²¹ Proposed Casing and Cement Program					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
No Change					

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

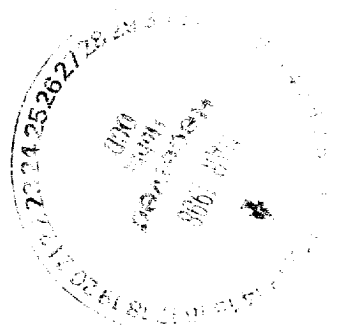
Objective: Texaco intends to directionally drill a 1700' lateral section from the subject well.

1. MIRU pulling unit. POH with production equipment.
2. Set CIBP @ 8715'. TIH with whipstock. Run GYRO to orient the whipstock face.
3. Run in hole with mill, motor, collars and drill pipe.
4. Mill window in casing. Start building lateral.
5. Directionally drill to the NE bottom hole location 1700' away. TOH.
6. Acidize horizontal interval.
7. Run production equipment and return to production.

Put 35' cement on top.

**Permit Expires 1 Year From Approval
Data Unless Drilling Underway
Directionally**

²³ I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature 	Printed Name James L. Anderson	Approved By: ORIGINAL SIGNED BY CHRIS WILLIAMS DISTRICT I SUPERVISOR	
Title Prod. Engineer	Date 3/10/98	Approval Date: 3/10/98	Expiration Date:
Telephone 397-0420	Conditions of Approval: Attached ☐		



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Fee Lease - 3 Copies
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 3002524495	² Pool Code 61760	³ Pool Name VACUUM ABO, NORTH
⁴ Property Code	⁵ Property Name NORTH VACUUM ABO WEST UNIT	⁶ Well No. 3
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation 4058' DF

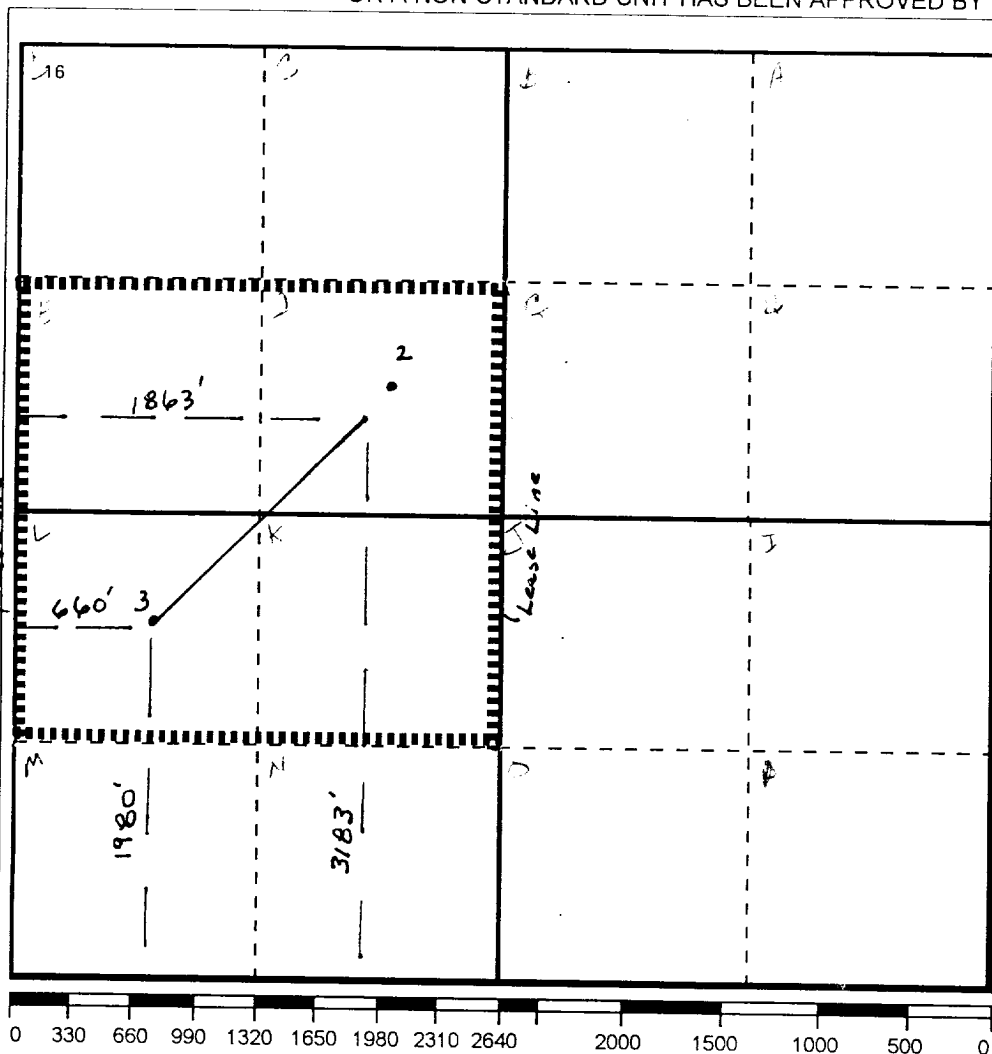
¹⁰ Surface Location

Ul or lot no. L	Section 15	Township 17S	Range 34E	Lot.Idn	Feet From The 1980	North/South Line SOUTH	Feet From The 660	East/West Line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

Ul or lot no. 1/F	Section 15	Township 17S	Range 34E	Lot.Idn	Feet From The 1980 3183	North/South Line SOUTH	Feet From The 660 1863	East/West Line WEST	County LEA
¹² Dedicated Acres 160	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ Order No.						

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



17 OPERATOR CERTIFICATION

I hereby certify that the information
contained herein is true and complete to the
best of my knowledge and belief

Signature

James L. Anderson

Printed Name

James L. Anderson

Position

Prod. Engineer

Date

3/11/98

18 SURVEYOR CERTIFICATION

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 knowledge and
belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.



NORTH VACUUM ABO WEST UNIT

T-17-S

R-34-E

MOBIL OIL

North Vacuum
Abo Unit

Yates-1

16

"Conoco" State

"Conoco" State

"NV"

"CQ"

"Rites"

"LEA" State

"AZ" Com

"Conoco" State

"NV"

"AF"-1

"T" NCT-3

"D" NCT-1

"V"

State 2-B

"O" NCT-2

25 ("V"-10)

P/B

1 mile

"P" 1

"I" 1

"LL" 1

"GS 16"-1

"T" NCT-4

"B" 8097

WVU-1

WVU-3

WVU-4

WVU-5

Amerada-1

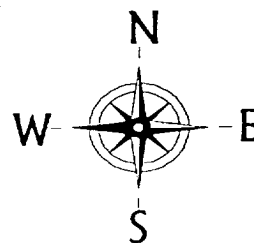
- Oil Producer
- ▲ Water Injection
- ⊙ P & A
- TA, inactive
- Location
- ⊙ Offset Wells

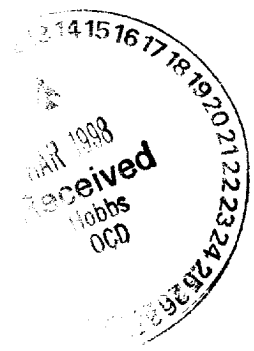
21

24

25 ("V"-10)

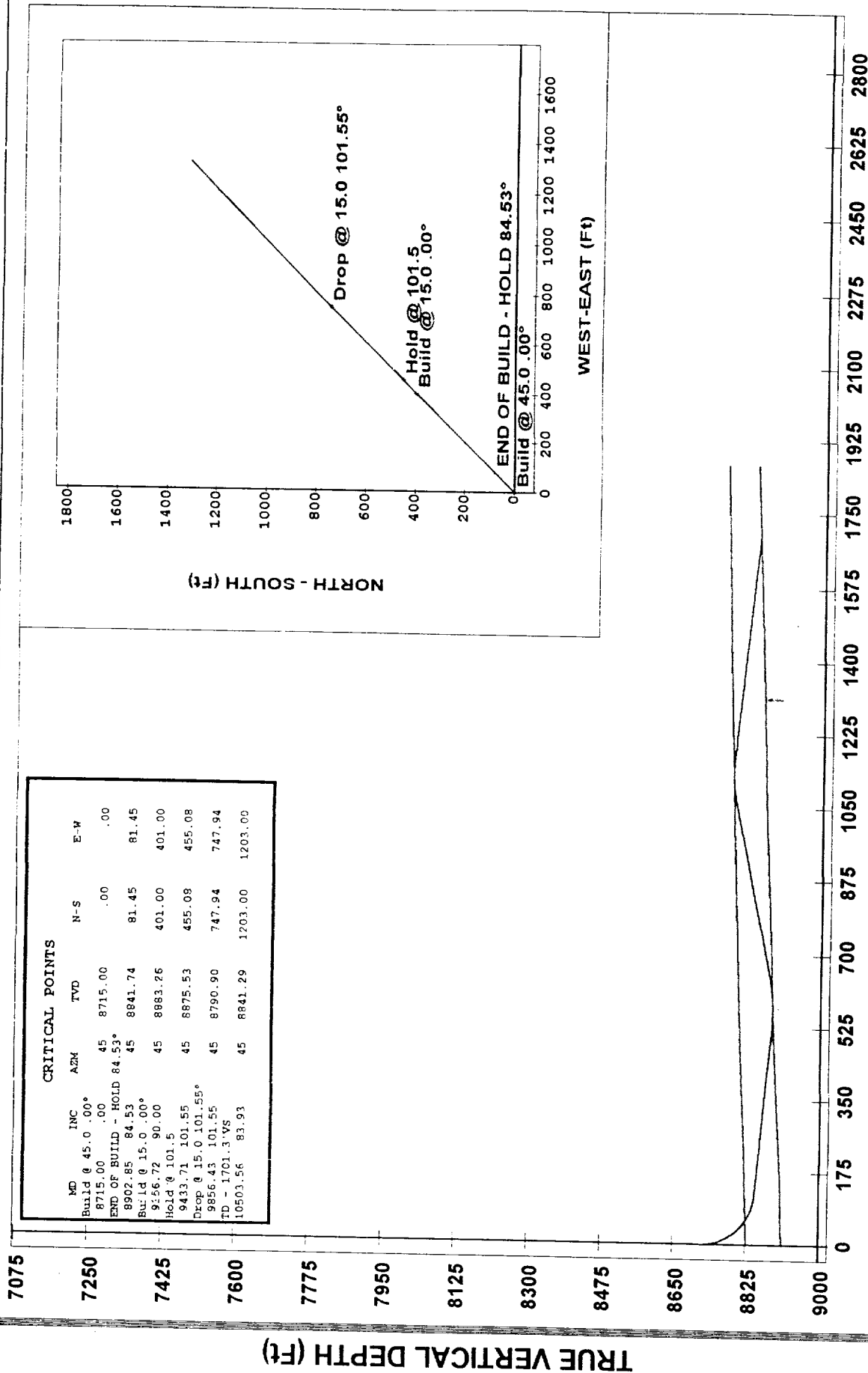
James Anderson 3-10-98





Company: Texaco E & P
 Lease/Well: NVAWU #3
 Location: Lea County, New Mexico
 State/Country:
 Declination:
 Grid:

File name: C:\TEXACO~1\NVAWU\NVAWU_3\NVAWU_3.SVY
 Date/Time: Tuesday, January 13, 1998



-- NVAWU #3(REV.1) □ --

VERTICAL SECTION (Ft) @ 45.00°



Job Number:

Company: Texaco E & P

Lease/Well: NVAWU #3

Location: Lea County, New Mexico

Rig Name: Yale E. Key #119

RKB: 4057

G.L. or M.S.L.: 4048

State/Country:

Declination:

Grid:

File name: C:\TEXACO~1\NVAWU\NVAWU_3\NVAWU_3.SVY

Date/Time: 13-Jan-98 / 13:49

Curve Name: NVAWU #3(REV.1)

PHOENIX DRILLING SERVICES, INC.

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

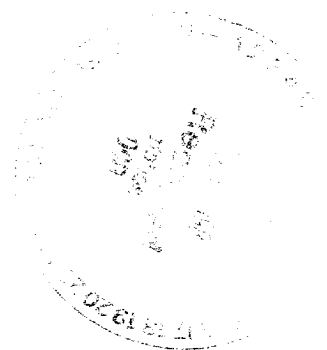
Vertical Section Plane 45.00

Measured Depth FT	Incl Deg	Drift Direction Deg	Course Length FT	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	BUILD RATE Deg/100	WALK RATE Deg/100	Dogleg Severity Deg/100
8715.00	0.00	45.00		8715.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8725.00	4.50	45.00	10.00	8724.99	28	28	39	39	45.00	45.00	0.00	45.00
8735.00	9.00	45.00	10.00	8734.92	1.11	1.11	1.57	1.57	45.00	45.00	0.00	45.00
8745.00	13.50	45.00	10.00	8744.72	2.49	2.49	3.52	3.52	45.00	45.00	0.00	45.00
8755.00	18.00	45.00	10.00	8754.35	4.41	4.41	6.23	6.23	45.00	45.00	0.00	45.00
8765.00	22.50	45.00	10.00	8763.72	6.85	6.85	9.69	9.69	45.00	45.00	0.00	45.00
8775.00	27.00	45.00	10.00	8772.80	9.81	9.81	13.88	13.88	45.00	45.00	0.00	45.00
8785.00	31.50	45.00	10.00	8781.53	13.27	13.27	18.76	18.76	45.00	45.00	0.00	45.00
8795.00	36.00	45.00	10.00	8789.84	17.19	17.19	24.32	24.32	45.00	45.00	0.00	45.00
8805.00	40.50	45.00	10.00	8797.69	21.57	21.57	30.51	30.51	45.00	45.00	0.00	45.00
8815.00	45.00	45.00	10.00	8805.03	26.37	26.37	37.29	37.29	45.00	45.00	0.00	45.00

Build @ 45.0 .00°



Measured Depth FT	Incl Angle Deg	Drift Direction Deg	Course Length FT	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	BUILD RATE Deg/100	WALK RATE Deg/100	Dogleg Severity Deg/100
8825.00	49.50	45.00	10.00	8811.82	31.56	31.56	44.63	44.63	45.00	45.00	.00	45.00
8835.00	54.00	45.00	10.00	8818.01	37.11	37.11	52.48	52.48	45.00	45.00	.00	45.00
8845.00	58.50	45.00	10.00	8823.56	42.99	42.99	60.80	60.80	45.00	45.00	.00	45.00
8855.00	63.00	45.00	10.00	8828.45	49.16	49.16	69.52	69.52	45.00	45.00	.00	45.00
8865.00	67.50	45.00	10.00	8832.63	55.58	55.58	78.60	78.60	45.00	45.00	.00	45.00
8875.00	72.00	45.00	10.00	8836.09	62.21	62.21	87.98	87.98	45.00	45.00	.00	45.00
8885.00	76.50	45.00	10.00	8838.81	69.01	69.01	97.60	97.60	45.00	45.00	.00	45.00
8895.00	81.00	45.00	10.00	8840.76	75.95	75.95	107.41	107.41	45.00	45.00	.00	45.00
END OF BUILD - HOLD 84.53°												
8902.85	84.53	45.00	7.85	8841.74	81.45	81.45	115.19	115.19	45.00	45.00	.00	45.00
9002.85	84.53	45.00	100.00	8851.27	151.84	151.84	214.73	214.73	45.00	.00	.00	.00
9102.85	84.53	45.00	100.00	8860.80	222.23	222.23	314.28	314.28	45.00	.00	.00	.00
9202.85	84.53	45.00	100.00	8870.33	292.62	292.62	413.82	413.82	45.00	.00	.00	.00
9302.85	84.53	45.00	100.00	8879.86	363.01	363.01	513.37	513.37	45.00	.00	.00	.00
9320.21	84.53	45.00	17.36	8881.52	375.23	375.23	530.65	530.65	45.00	-01	.00	.01
9326.72	85.50	45.00	6.51	8882.08	379.81	379.81	537.13	537.13	45.00	14.91	.00	14.91
Build @ 15.0 .00°												
9356.72	90.00	45.00	30.00	8883.26	401.00	401.00	567.10	567.10	45.00	15.00	.00	15.00
9386.72	94.50	45.00	30.00	8882.08	422.19	422.19	597.07	597.07	45.00	15.00	.00	15.00
9416.72	99.00	45.00	30.00	8878.56	443.26	443.26	626.86	626.86	45.00	15.00	.00	15.00
Hold @ 101.5												
9433.71	101.55	45.00	16.99	8875.53	455.08	455.08	643.57	643.57	45.00	15.00	.00	15.00
9533.71	101.55	45.00	100.00	8855.51	524.36	524.36	741.55	741.55	45.00	.00	.00	.00
9633.71	101.55	45.00	100.00	8835.49	593.63	593.63	839.53	839.53	45.00	.00	.00	.00
9733.71	101.55	45.00	100.00	8815.47	662.91	662.91	937.50	937.50	45.00	.00	.00	.00
9833.71	101.55	45.00	100.00	8795.45	732.19	732.19	1035.48	1035.48	45.00	.00	.00	.00
Drop @ 15.0 101.55°												
9856.43	101.55	45.00	22.73	8790.90	747.94	747.94	1057.74	1057.74	45.00	.00	.00	.00
9856.76	101.50	45.00	.33	8790.83	748.16	748.16	1058.06	1058.06	45.00	-15.00	.00	15.00



Measured Depth FT	Incl Angle Deg	Drift Direction Deg	Course Length FT	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	BUILD RATE Deg/100	WALK RATE Deg/100	Dogleg Severity Deg/100
9873.43	99.00	45.00	16.66	8787.87	759.76	759.76	1074.46	1074.46	45.00	-15.00	.00	15.00
9903.43	94.50	45.00	30.00	8784.34	780.82	780.82	1104.25	1104.25	45.00	-15.00	.00	15.00
9933.43	90.00	45.00	30.00	8783.17	802.01	802.01	1134.21	1134.21	45.00	-15.00	.00	15.00
9963.43	85.50	45.00	30.00	8784.34	823.20	823.20	1164.18	1164.18	45.00	-15.00	.00	15.00
9973.88	83.93	45.00	10.45	8785.31	830.56	830.56	1174.59	1174.59	45.00	-15.00	.00	15.00
10073.88	83.93	45.00	100.00	8795.88	900.87	900.87	1274.03	1274.03	45.00	.00	.00	.00
10173.88	83.93	45.00	100.00	8806.45	971.19	971.19	1373.47	1373.47	45.00	.00	.00	.00
10273.88	83.93	45.00	100.00	8817.02	1041.50	1041.50	1472.91	1472.91	45.00	.00	.00	.00
10373.88	83.93	45.00	100.00	8827.59	1111.82	1111.82	1572.35	1572.35	45.00	.00	.00	.00
10473.88	83.93	45.00	100.00	8838.15	1182.13	1182.13	1671.79	1671.79	45.00	.00	.00	.00
TD - 1701.3'VS												
10503.56	83.93	45.00	29.68	8841.29	1203.00	1203.00	1701.30	1701.30	45.00	.00	.00	.00

2 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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