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JP

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised March 17, 1999
Instructions on back
Submit to appropriate District Office

DISTRICT II
811 South First, Artesia, NM 88210

OIL CONSERVATION DIVISION

State Lease - 6 Copies
Fee Lease - 5 Copies

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

PO BOX 2088
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87501

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

¹ Operator Name and Address Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210		² OGRID Number 025575
		³ API Number 30- 015-28409
⁴ Property Code 15788	⁵ Property Name Patriot AIZ	⁶ Well No. 10

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
N	21	19S	25E		860'	South	1980'	West	Eddy

s

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
K	21	19S	25E		1980'	South	1980'	West	Eddy
⁹ Proposed Pool 1					¹⁰ Proposed Pool 2				

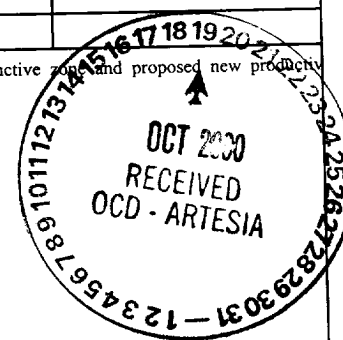
¹¹ Work Type Code PB	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3493'
¹⁶ Multiple N	¹⁷ Proposed Depth 9037' MD	¹⁸ Formation Canyon	¹⁹ Contractor Not Determined	²⁰ Spud Date ASAP

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/feet	Setting Depth	Sacks of Cement	Estimated TOC
14 3/4"	9 5/8"	36#	1018'	2200 sx	In Place
8 3/4"	7"	23# + 26#	8320'	1400 sx	In Place
4 3/4"	Open Hole	-----	9037' MD	-----	-----

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 productivity. Describe the blowout prevention program, if any. Use additional sheets if necessary.

SEE ATTACHED DRILLING PROGNOSIS, CHARTS, LOGS, AND PLAT MAP.



²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Cy Cowan</i>		OIL CONSERVATION DIVISION	
Printed name: Cy Cowan		Approved by: ORIGINAL SIGNED BY TIM W. GUM BSA	
Title: Regulatory Agent		Title: DISTRICT II SUPERVISOR	
Date: 10/16/00		Approval Date: OCT 19 2000 Expiration Date: OCT 19 2001	
Phone: (505) 748-1471		Conditions of Approval Attached ☐	

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name Wildcat Canyon	
⁴ Property Code		⁵ Property Name Patriot AIZ			⁶ Well Number 10
⁷ OGRID No. 025575		⁸ Operator Name YATES PETROLEUM CORPORATION			⁹ Elevation 3491'

¹⁰ Surface Location

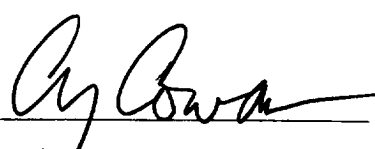
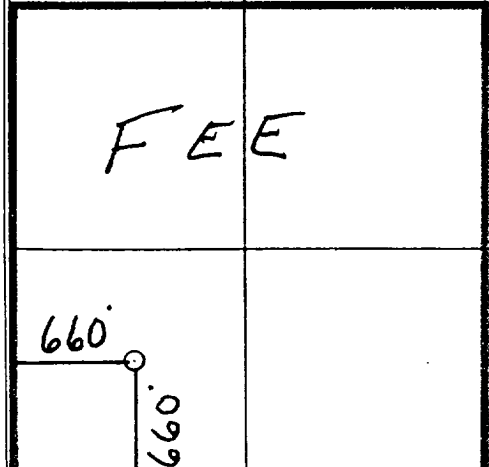
UL or lot no. N	Section 21	Township 19S	Range 25E	Lot Idn	Feet from the 660'	North/South line South	Feet from the 1980'	East/West line West	County Eddy
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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 Cy Cowan Printed Name Regulatory Agent Title Date October 16, 2000	
				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> Date of Survey Signature and Seal of Professional Surveyor: REFER TO ORIGINAL PLAT Certificate Number	
 FEE					

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name Dagger Draw, Upper Penn, North	
4 Property Code		5 Property Name PATRIOT "AIZ"			6 Well Number 10
7 OGRID No. 025575		8 Operator Name YATES PETROLEUM CORPORATION			9 Elevation 3491.

10 Surface Location

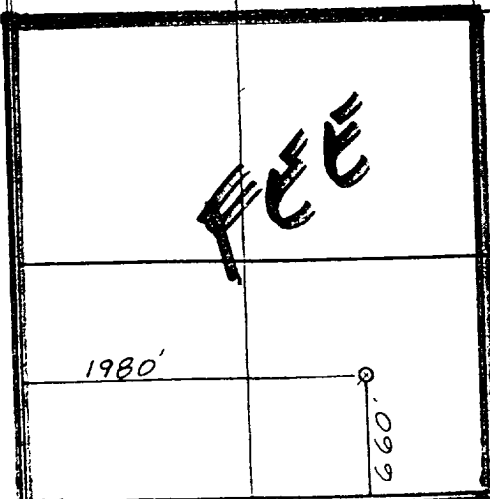
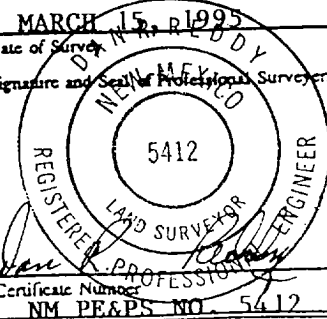
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	21	19S	25E		660	SOUTH	1980	WEST	EDDY

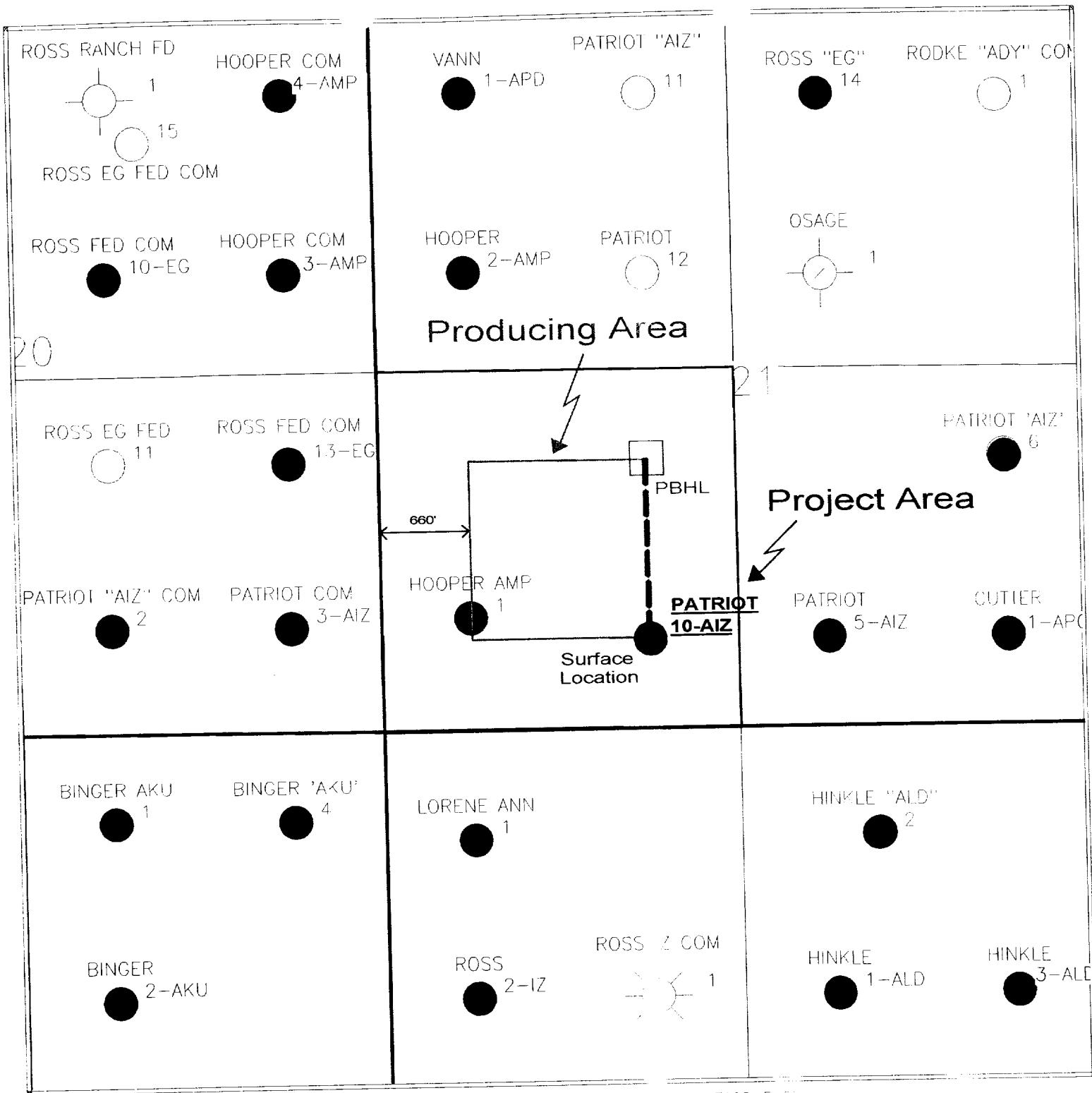
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 160	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WELL 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 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
					Signature <i>Ken Beardemphl</i> Printed Name Ken Beardemphl Title Landman Date March 22, 1995	
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 belief.					MARCH 15, 1995 Date of Survey Signature and Seal of Professional Surveyor  Certificate Number NM PE&PS NO. 5412	



Surface Location: 660 FSL & 1980 FWL Sec. 21-T19S-R25E
 Proposed Bottom Hole Location: 1980' FSL & 1980' FWL Sec. 21-T19S-R25E

Yates Petroleum Corporation		
Patriot 'AIZ' #10-H Section 21 T19S-R25E		
John Humphrey		8/10/00
	Scale 1:12000.	ddpat10.gpf

Drilling Prognosis

Yates Petroleum

This information is only approximate. Final form may vary

Patriot AIZ #10-H

Surface: Sec. 21 19S-25E 660' S & 1,980' W

Bottom Hole: 1,980' S & W

Eddy County, NM, 9,037' MD Canyon

Procedure:

YPC plans to re-enter this well which was originally drilled in 1995. The well is currently shut in. The tubing and tools will be pulled from the well, and the perforations will be left open. A cast iron bridge plug will be set at +/-7,678'. A whipstock will then be set inside of the casing on top of the CIBP. A window will then be milled in the casing at 7,658', and the wellbore will be sidetracked out of the 7" casing. A 4 3/4" bit will be used for the horizontal lateral. A build rate of 60 deg/100' will be used until a maximum inclination of 104 degrees is reached. The 105 degree inclination will be held to climb up to a TVD of 7,660' (7,920' MD). At this point the inclination will be returned to 90 degrees (at a drop rate of 60 degrees/100'). From this point the 90 degree angle will be maintained and a lateral approximately 1,320' long will be drilled. The end of the lateral will be 7,725' TVD, 9,037' MD.

Drilling Program

Hole Size		Casing Program		
Size	Depth To	Size	Weight	Depth
14.75"	1018'	9.625"	36#J-55	1018'
8.75"	8320'	7"	23#, 26#	8320'
4.75"	9,037' MD	OPEN HOLE		

NOTE: The 9.625" and 7" casing strings are set and cemented in place.

Mud Program

Depth		Type	Weight
From	To		
0'	TD	FW	8.4-8.6
		Vis: 28-32	

BOP EQUIPMENT

3,000 psi system nipped up on 7" casing.

DIRECTIONS TO LOCATION

GO SOUTH OF ARTESIA ON HIGHWAY 285 FOR APPROXIMATELY 15 MILES. TURN WEST ON ROCK N R RED ROAD FOR APPROXIMATELY 5.3 MILES, THEN TURN SOUTH ON LEASE ROAD FOR 3/4 A MILE. TURN WEST TO LOCATION.

Pat10

Job Number: 1

State/Country: NM/USA

Company: Yates Petroleum Corporation
 Lease/Well: Patriot AIZ #10-H
 Location: Section 21 T19S-R25E
 Rig Name:
 RKB:
 G.L. or M.S.L.:

Declination:
 Grid:
 File name: C:\WINSERVE\PATRIOT.SVY
 Date/Time: 14-Aug-00 / 16:34
 Curve Name:

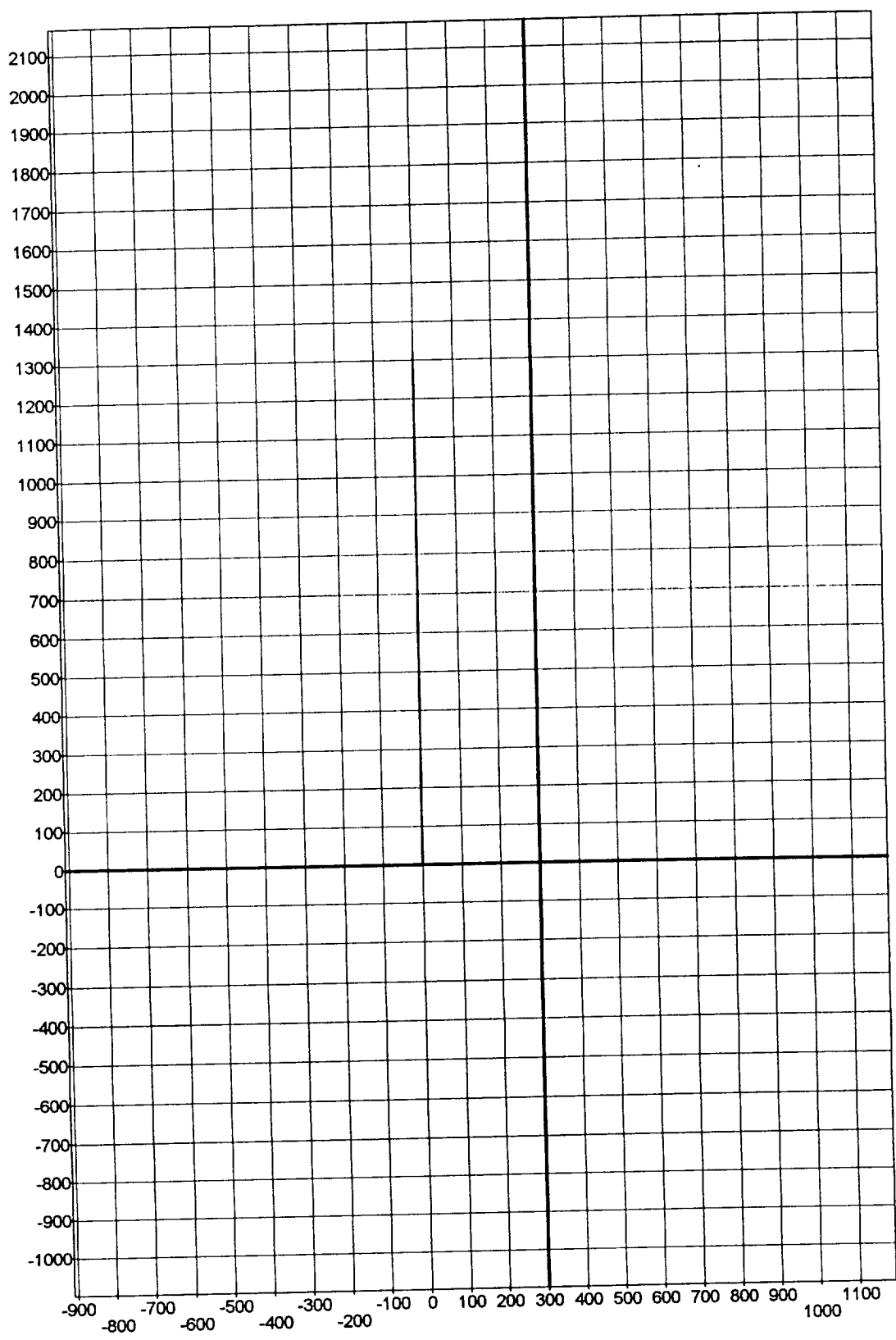
WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to offset from Wellhead: EW =.00 Ft, NS=.00 Ft
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
7658.00	.00	360.00	7658.00	.00	.00	.00	.00	.00	.00
7688.00	18.68	360.00	7687.47	4.85	.00	4.85	4.85	.00	62.28
7718.00	37.37	360.00	7713.84	18.88	.00	18.88	18.88	.00	62.28
7748.00	56.05	360.00	7734.32	40.62	.00	40.62	40.62	.00	62.28
7778.00	74.73	360.00	7746.75	67.78	.00	67.78	67.78	.00	62.28
7802.51	90.00	360.00	7750.00	92.00	.00	92.00	92.00	.00	62.28
7810.51	90.00	360.00	7750.00	100.00	.00	100.00	100.00	.00	.00
7833.37	103.71	.00	7747.28	122.64	.00	122.64	122.64	360.00	60.00
7933.37	103.71	.00	7723.57	219.79	.00	219.79	219.79	360.00	.00
8015.93	103.71	.00	7704.00	300.00	.00	300.00	300.00	.00	.00
8038.79	90.00	.00	7701.28	322.64	.00	322.64	322.64	.00	60.00
8068.79	89.92	.00	7701.30	352.64	.00	352.64	352.64	.00	.27
8098.79	89.84	.00	7701.36	382.64	.00	382.64	382.64	.00	.27
8128.79	89.75	.00	7701.47	412.64	.00	412.64	412.64	.00	.27
8158.79	89.67	.00	7701.62	442.64	.00	442.64	442.64	.00	.27
8188.79	89.59	.00	7701.81	472.64	.00	472.64	472.64	.00	.27
8218.79	89.51	.00	7702.05	502.63	.00	502.63	502.63	.00	.27
8248.79	89.43	.00	7702.33	532.63	.00	532.63	532.63	.00	.27
8278.79	89.34	.00	7702.65	562.63	.00	562.63	562.63	.00	.27
8308.79	89.26	.00	7703.02	592.63	.00	592.63	592.63	.00	.27
8338.79	89.18	.00	7703.42	622.63	.00	622.63	622.63	.00	.27
8368.79	89.10	.00	7703.87	652.62	.00	652.62	652.62	.00	.27
8398.79	89.02	.00	7704.37	682.62	.00	682.62	682.62	.00	.27
8428.79	88.93	.00	7704.90	712.61	.00	712.61	712.61	.00	.27
8458.79	88.85	.00	7705.48	742.61	.00	742.61	742.61	.00	.27
8488.79	88.77	.00	7706.10	772.60	.00	772.60	772.60	.00	.27

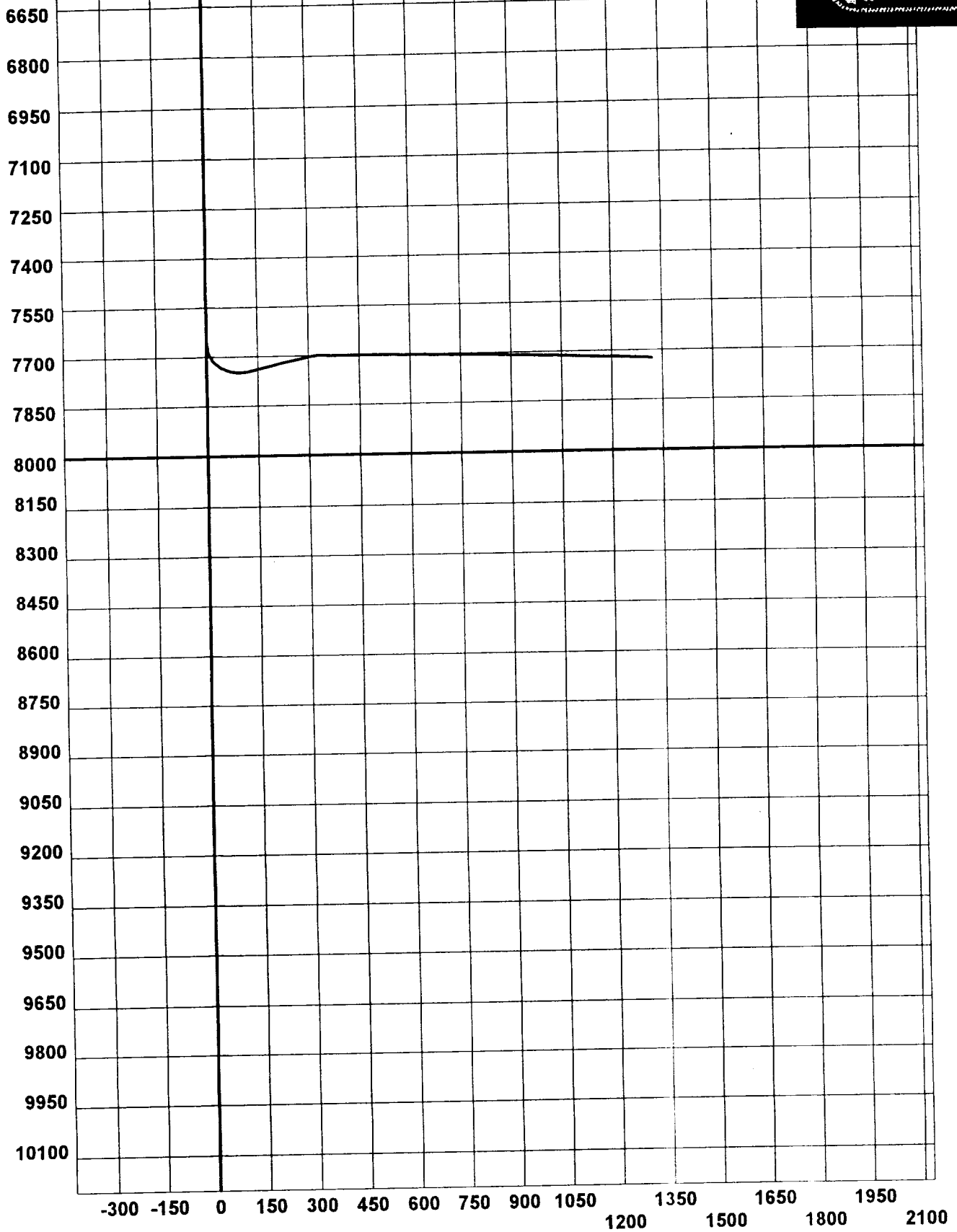
PAGE - 1

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	Pat10 E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
8518.79	88.69	.00	7706.77	802.60	.00	802.60	802.60	.00	.27
8548.79	88.61	360.00	7707.48	832.59	.00	832.59	832.59	.00	.27
8578.79	88.53	360.00	7708.23	862.58	.00	862.58	862.58	.00	.27
8608.79	88.44	360.00	7709.02	892.57	.00	892.57	892.57	.00	.27
8638.79	88.36	360.00	7709.86	922.56	.00	922.56	922.56	.00	.27
8668.79	88.28	360.00	7710.74	952.54	.00	952.54	952.54	.00	.27
8698.79	88.20	360.00	7711.66	982.53	.00	982.53	982.53	.00	.27
8728.79	88.12	360.00	7712.62	1012.51	.00	1012.51	1012.51	.00	.27
8758.79	88.03	360.00	7713.63	1042.50	.00	1042.50	1042.50	.00	.27
8788.79	87.95	360.00	7714.68	1072.48	.00	1072.48	1072.48	.00	.27
8818.79	87.87	360.00	7715.78	1102.46	.00	1102.46	1102.46	.00	.27
8848.79	87.79	360.00	7716.91	1132.44	.00	1132.44	1132.44	.00	.27
8878.79	87.71	360.00	7718.09	1162.41	.00	1162.41	1162.41	.00	.27
8908.79	87.62	360.00	7719.32	1192.39	.00	1192.39	1192.39	.00	.27
8938.79	87.54	360.00	7720.58	1222.36	.00	1222.36	1222.36	.00	.27
8968.79	87.46	360.00	7721.89	1252.33	.00	1252.33	1252.33	.00	.27
8998.79	87.38	360.00	7723.24	1282.30	.00	1282.30	1282.30	.00	.27
9028.79	87.30	360.00	7724.63	1312.27	.00	1312.27	1312.27	.00	.27
9036.53	87.28	360.00	7725.00	1320.00	.00	1320.00	1320.00	.00	.27

Company:
Lease/Well:
Location:



Company:
Lease/Well:
Location:



STRUCTURAL CROSS-SECTION: EQUAL SPACE

Datum = -4200 Domain = Depth

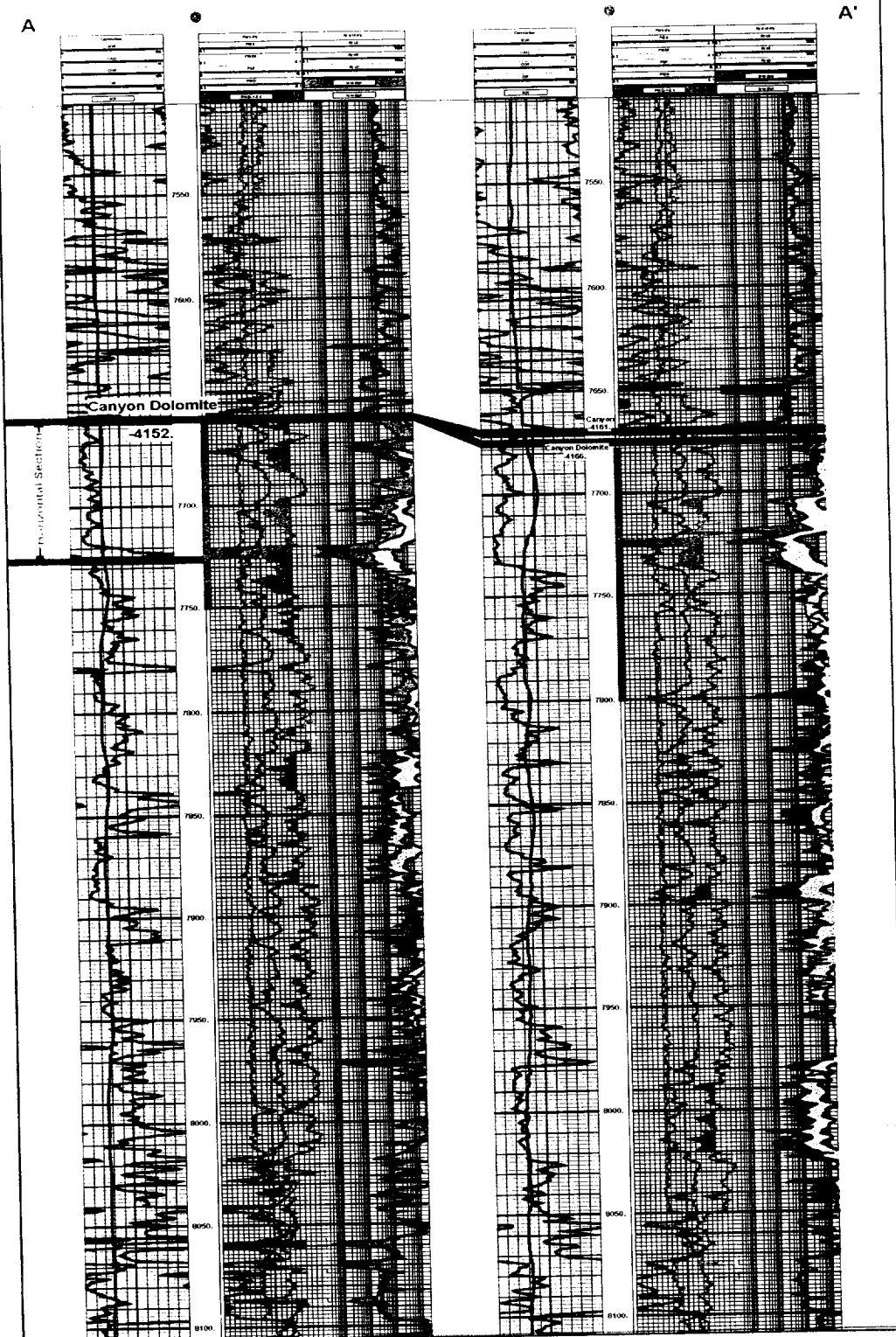
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30015284090000
YATES PETROLEUM CORP
PATRIOT 'AIZ' #10

T19S-R25E Section 21
Surface Loc: 660 FSL 1980 FWL: 1980 FSL 1980 FWL
KB-3506

30015273560000
YATES PETROLEUM CORP
HOOPER "AMP" #2

T19S-R25E Section 21
1980 FNL 660 FWL
KB-3509



Yates Petroleum Corporation
Patriot 'AIZ' 10-H Proposed Lateral
Section 21 T19S-R25E
Canyon Dolomite Cross Section

John R. McLaughlin
Scale: 1:24,000
KB-3506

STRUCTURAL CROSS-SECTION: EQUAL SPACE

Datum = -4200 Domain = Depth

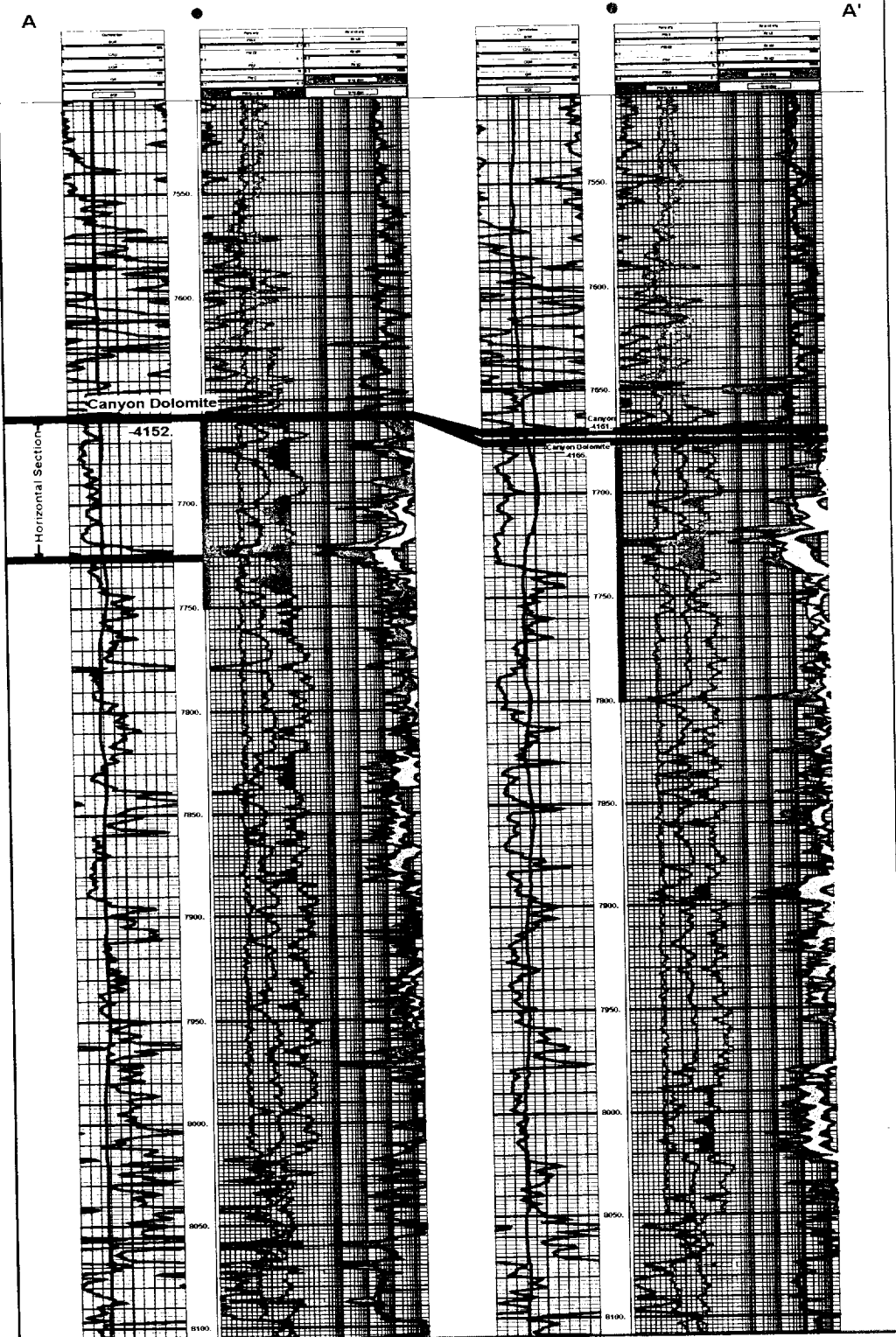
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30015284090000
YATES PETROLEUM CORP
PATRIOT 'AIZ' #10

T19S-R25E Section 21
Surface Loc: 660 FSL 1980 FWL: 1980 FSL 1980 FWL
KB-3506

30015273560000
YATES PETROLEUM CORP
HOOPER "AMP" #2

T19S-R25E Section 21
1980 FNL 660 FWL
KB-3509

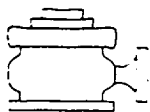


Yates Petroleum Corporation

Patriot 'AIZ' 10-H Proposed Line
Section 21 T19S-R25E
Canyon Dolomite Cross Section

Sheet 1 of 1

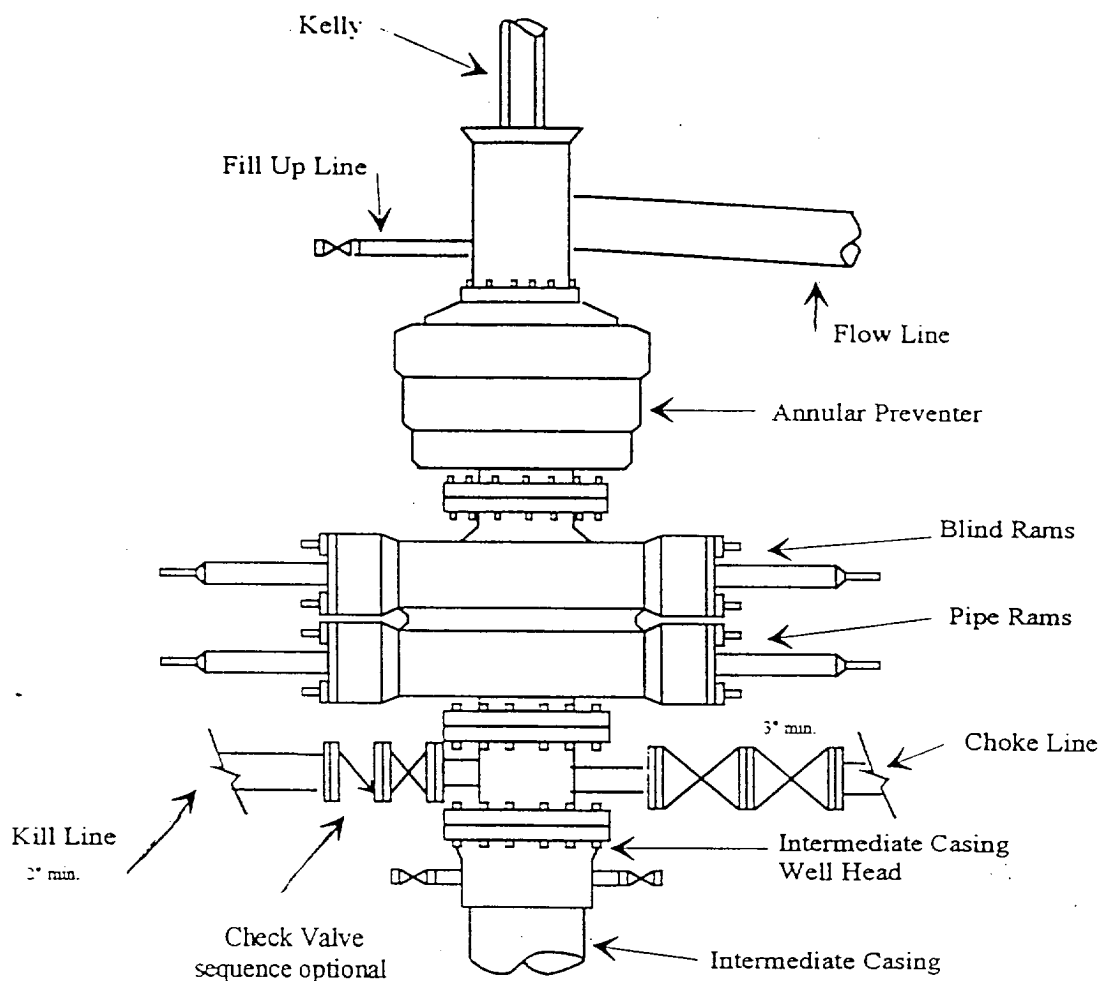
Page 14



Yates Petroleum Corporation

Typical 3,000 psi Pressure System Schematic Annular with Double Ram Preventer Stack

BOP-3



Typical 3,000 psi choke manifold assembly with at least these minimum features

