

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-01
Revised March 17, 1999

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 Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210		² OGRID Number 025575
³ Property Code 15788		⁴ API Number 30- 015-28405
⁵ Property Name Patriot "AIZ"		⁶ Well No. 6-1

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
I	21	19S	25E		1980'	South	660'	East	Eddy

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
J	21	19S	25E		1880'	South	1980'	East	Eddy
⁹ Proposed Pool 1 Dagger Draw Upper Penn, North					¹⁰ Proposed Pool 2				

¹¹ Work Type Code PB	¹² Well Type Code O	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3473'
¹⁶ Multiple No	¹⁷ Proposed Depth 9013' MD	¹⁸ Formation Canyon	¹⁹ Contractor Not Determined	²⁰ Spud Date ASAP

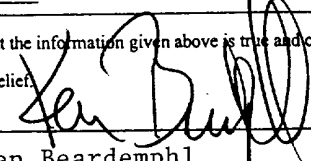
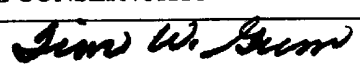
²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
14 3/4"	9 5/8"	36#	1142'	1300 sx	In Place
8 3/4"	7"	23# & 26#	7632'	1000 sx	In Place
6 1/8"	Open Hole	-----	7632'-7790'	Open Hole	-----
4 3/4"	Open Hole Lateral	-----	9013' MD	Open Hole	-----

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.

PLEASE SEE DRILLING PROGNOSIS, CHARTS, LOG AND PLAT MAPS ATTACHED

BOPE PROGRAM: A 3000# BOP will be installed on the 9 5/8" casing and tested daily.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature:  Printed name: Ken Beardemphl Title: Landman Date: July 26, 2000 Phone: (505) 748-1471		OIL CONSERVATION DIVISION Approved by:  B6X Title: SUPERVISOR, DISTRICT II Approval Date: JUL 27 2000 Expiration Date: JUL 27 2001 Conditions of Approval: Attached ☐
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State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-28405		Pool Code	Pool Name Dagger Draw Upper Penn, North	
Property Code 15788	Property Name Patriot "AIZ"		Well Number 6-H	
OGRID No. 025575	Operator Name Yates Petroleum Corporation		Elevation	

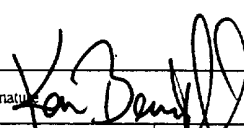
¹⁰ Surface Location

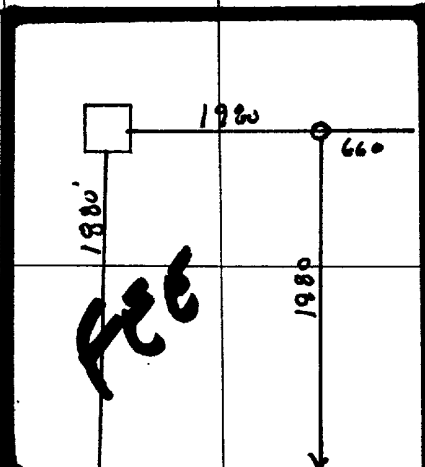
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	21	19S	25E		1980'	South	660'	East	Eddy

¹¹ Bottom Hole Location If Different From Surface

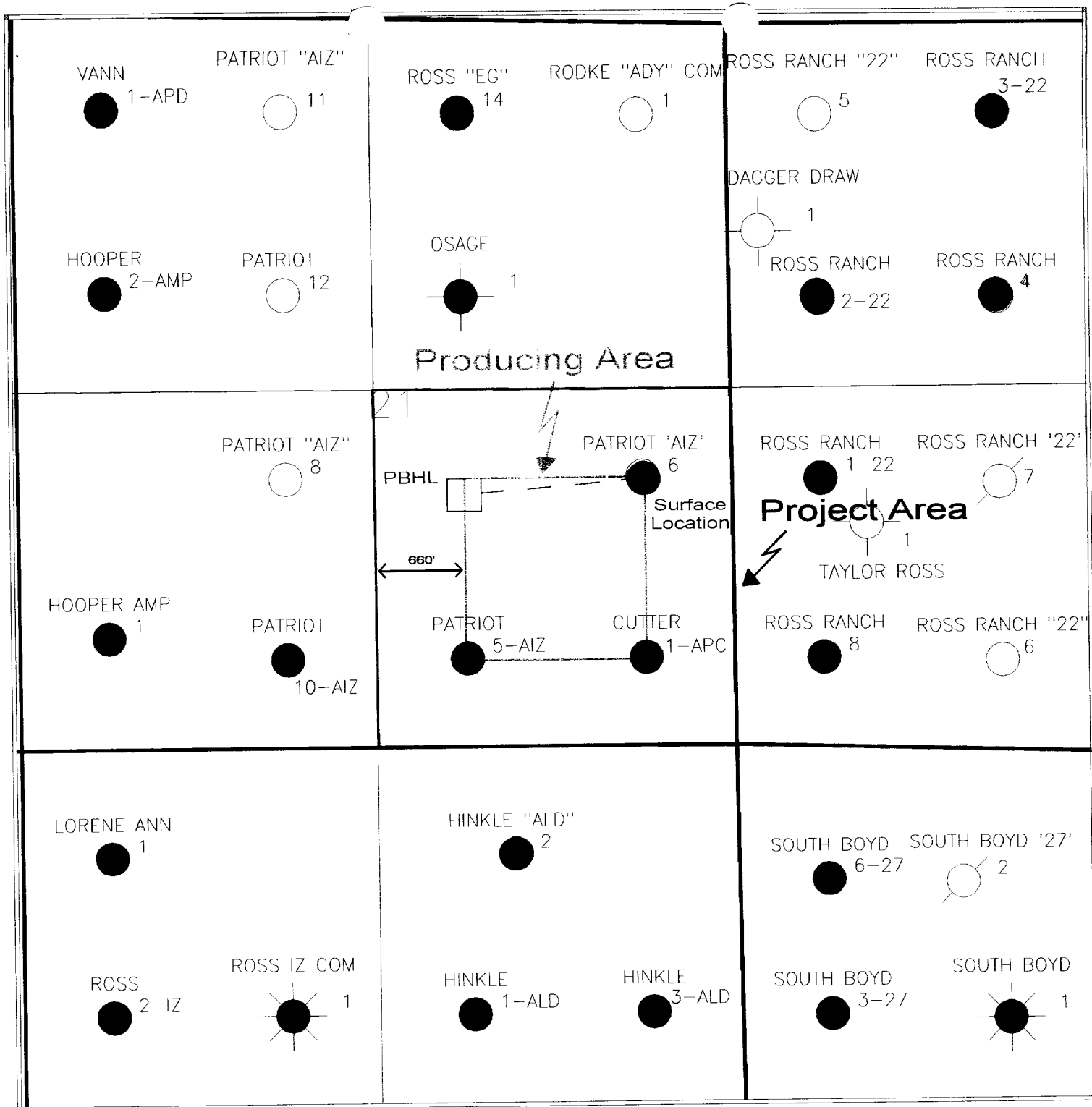
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	21	19S	25E		1880'	South	1980'	East	Eddy
Dedicated Acres 160		Joint or Infill		Consolidation Code		Order No.			

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

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:  Printed Name: Ken Beardemphl Title: Landman Date: July 26, 2000 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. Date of Survey Signature and Seal of Professional Surveyor: REFER TO ORIGINAL PLAT Certificate Number



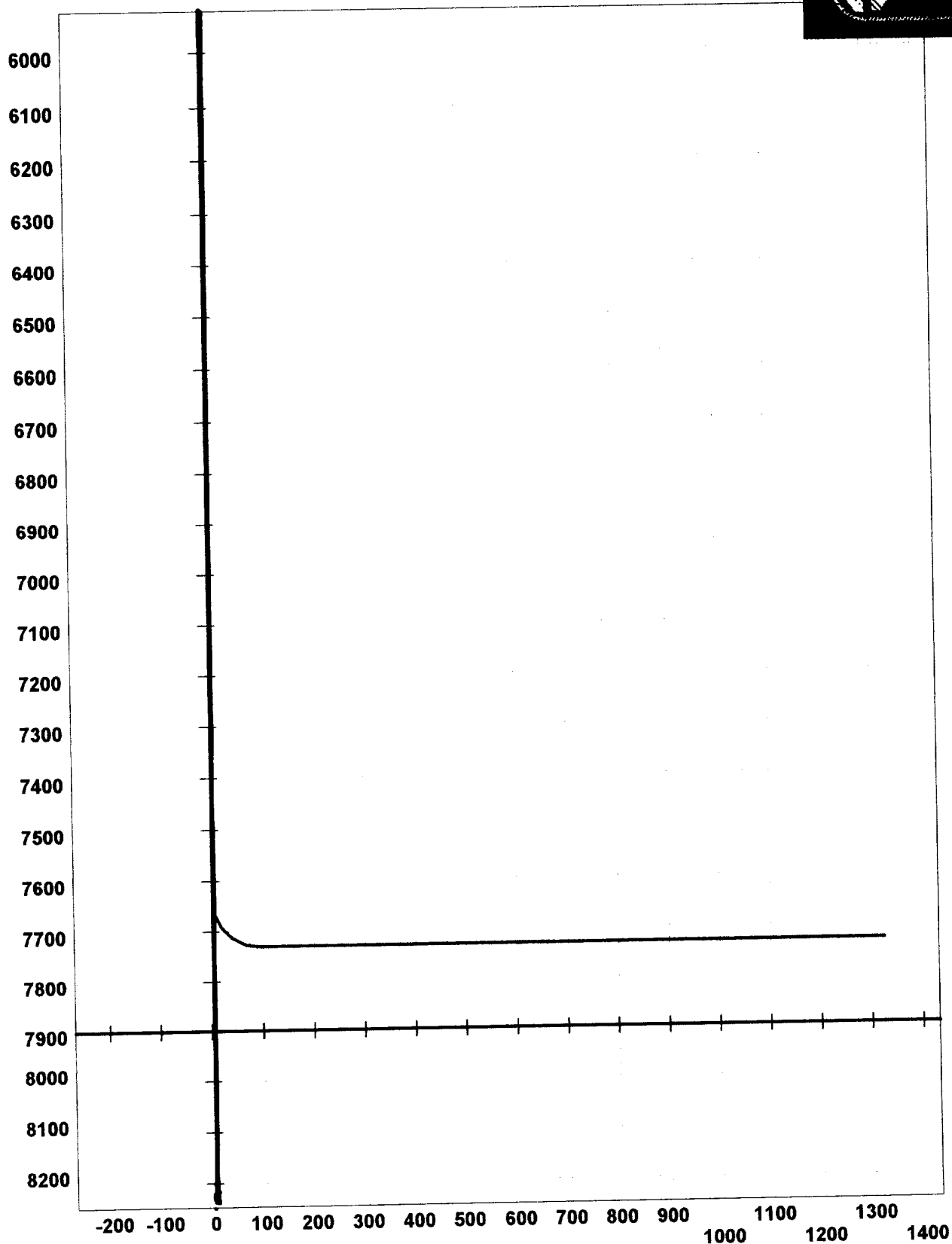




Surface Location: 1980' FSL & 660' FEL Sec. 21-T19S-R25E
 Proposed Bottom Hole Location: 1880' FSL & 1980' FEL Sec. 21-T19S-R25E

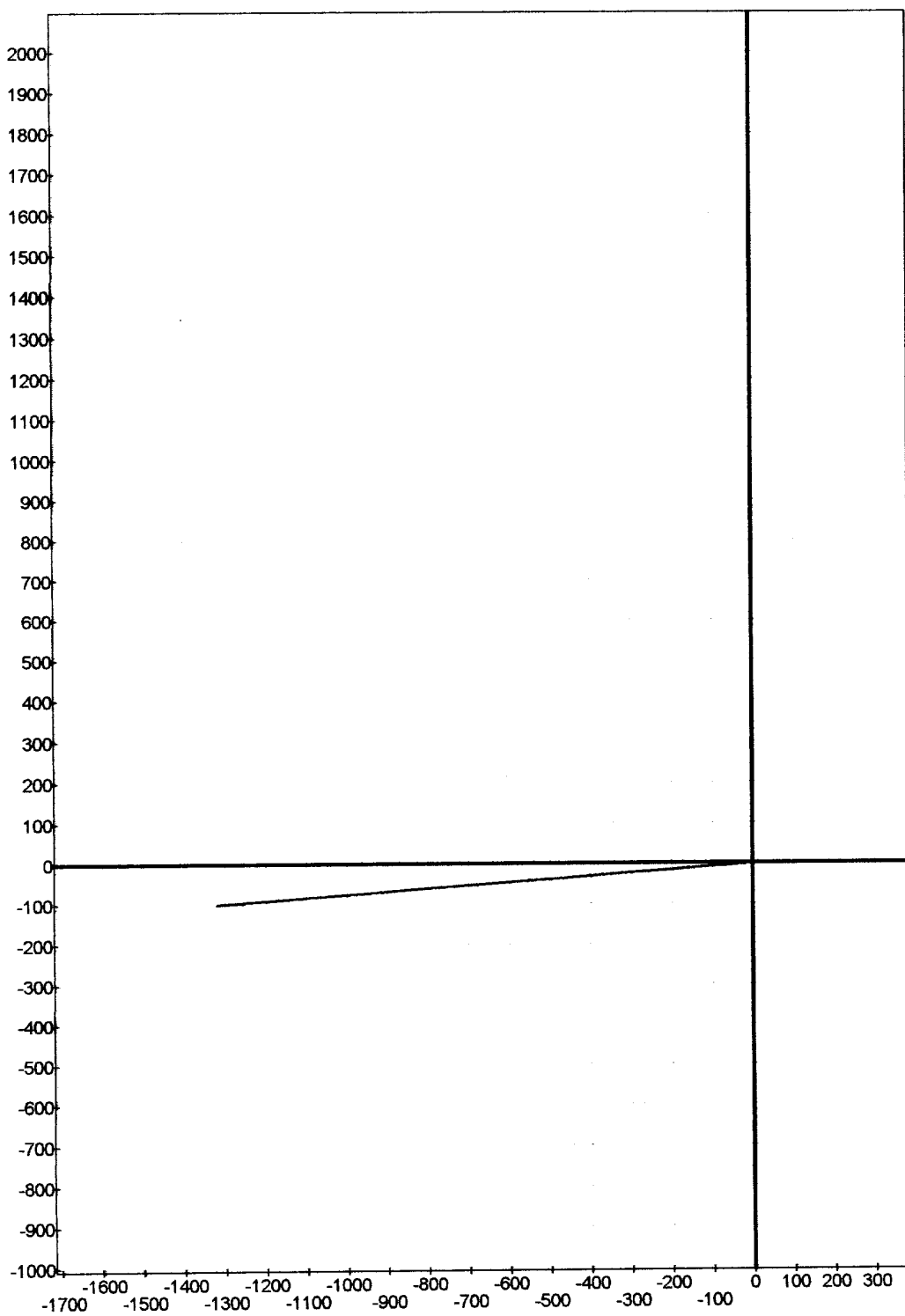
Yates Petroleum Corporation		
PATRIOT AIZ 6-H Section 21 T19S-R25E		
Geol: B. May		4/25/2000
ld	Scale 1:12000.	ddpat6.gpf

Company: Yates Petroleum Corporation
Lease/Well: Patriot AIZ #6-H



○ _ △ _ ▽ _

Company: Yates Petroleum Corporation
Lease/Well: Patriot AIZ #6-H



Job Number: 1

State/Country: NM/USA

Company: Yates Petroleum Corporation
Lease/Well: Patriot AIZ #6-H
Location: Section 21 T19S-R25E
Rig Name:
RKB:
G.L. or M.S.L.:

Declination:
Grid:
File name: C:\WINSERVE\PATRIOT6.SVY
Date/Time: 13-Jun-00 / 16:31
Curve Name:



WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 265.67
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
7635.00	.00	265.67	7635.00	.00	.00	.00	.00	.00	.00
7665.00	18.09	265.67	7664.50	-.35	-4.68	4.70	4.70	265.67	60.31
7695.00	36.19	265.67	7691.09	-1.38	-18.27	18.33	18.33	265.67	60.31
7725.00	54.28	265.67	7712.13	-2.99	-39.42	39.54	39.54	265.67	60.31
7755.00	72.37	265.67	7725.54	-5.00	-66.04	66.23	66.23	265.67	60.31
7784.23	90.00	265.67	7730.00	-7.18	-94.73	95.00	95.00	265.67	60.31
7884.23	90.00	265.67	7730.00	-14.73	-194.44	195.00	195.00	265.67	.00
7984.23	90.00	265.67	7730.00	-22.28	-294.16	295.00	295.00	265.67	.00
8084.23	90.00	265.67	7730.00	-29.84	-393.87	395.00	395.00	265.67	.00
8184.23	90.00	265.67	7730.00	-37.39	-493.59	495.00	495.00	265.67	.00
8284.23	90.00	265.67	7730.00	-44.95	-593.30	595.00	595.00	265.67	.00
8384.23	90.00	265.67	7730.00	-52.50	-693.01	695.00	695.00	265.67	.00
8484.23	90.00	265.67	7730.00	-60.06	-792.73	795.00	795.00	265.67	.00
8584.23	90.00	265.67	7730.00	-67.61	-892.44	895.00	895.00	265.67	.00
8684.23	90.00	265.67	7730.00	-75.16	-992.16	995.00	995.00	265.67	.00
8784.23	90.00	265.67	7730.00	-82.72	-1091.87	1095.00	1095.00	265.67	.00
8884.23	90.00	265.67	7730.00	-90.27	-1191.59	1195.00	1195.00	265.67	.00
8984.23	90.00	265.67	7730.00	-97.83	-1291.30	1295.00	1295.00	265.67	.00
9013.01	90.00	265.67	7730.00	-100.00	-1320.00	1323.78	1323.78	265.67	.00

Drilling Prognosis
Yates Petroleum

This information is only approximate. Final form may vary

Patriot AIZ #6-H
Surface: Sec. 21 19S-25E 1,980' FSL & 660' FEL
Bottom Hole: 1,880' S & 1,980' E
Eddy County, NM, 9,013' MD Canyon

Procedure:

YPC plans to re-enter this well which was drilled in 1997. The well is currently producing. 7" casing is currently set at 7,632', and the open hole interval from 7,632' - 7,790' is producing. A cement plug will be set from 7,600' - 7,790'. The plug will then be dressed off, and the wellbore will be "kicked off" at 7,735'. A 4 3/4" bit will be used for the horizontal lateral. A build rate of 60 deg/100' will be used until a final inclination of 90 degrees is reached. This should occur at 7,784' MD, 7,730' TVD. From this point the 90 degree angle will be maintained and a lateral approximately 1,220' long will be drilled. The end of the lateral will be 9,013' MD, 7,730' TVD.

Geological Program

Expected Tops:

SAN ANDRES	Depth: 687
GLORIETA	Depth: 2237
YESO	Depth: 2343
BONE SPRING LST	Depth: 3815
THIRD SAND	Depth: 5822
WOLFCAMP LST	Depth: 6285
CANYON LST	Depth: 7632
CANYON DOLOMITE	Depth: 7710
TD	Depth: 7730' TVD, 9,013' MD

Drilling Program

Hole Size		Casing Program		
Size	Depth To	Size	Weight	Depth
14.75"	1142'	9.625"	36#J-55	1142'
8.75"	7632'	7"	23#, 26#	7632'
6.125'	7632'-7790'	OPEN HOLE		
4.75"	9,013' MD	OPEN HOLE LATERAL		

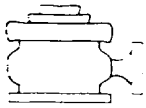
NOTE: The 9.625" and 7" casing strings are set and cemented in place.

Mud Program

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

Directions to Location

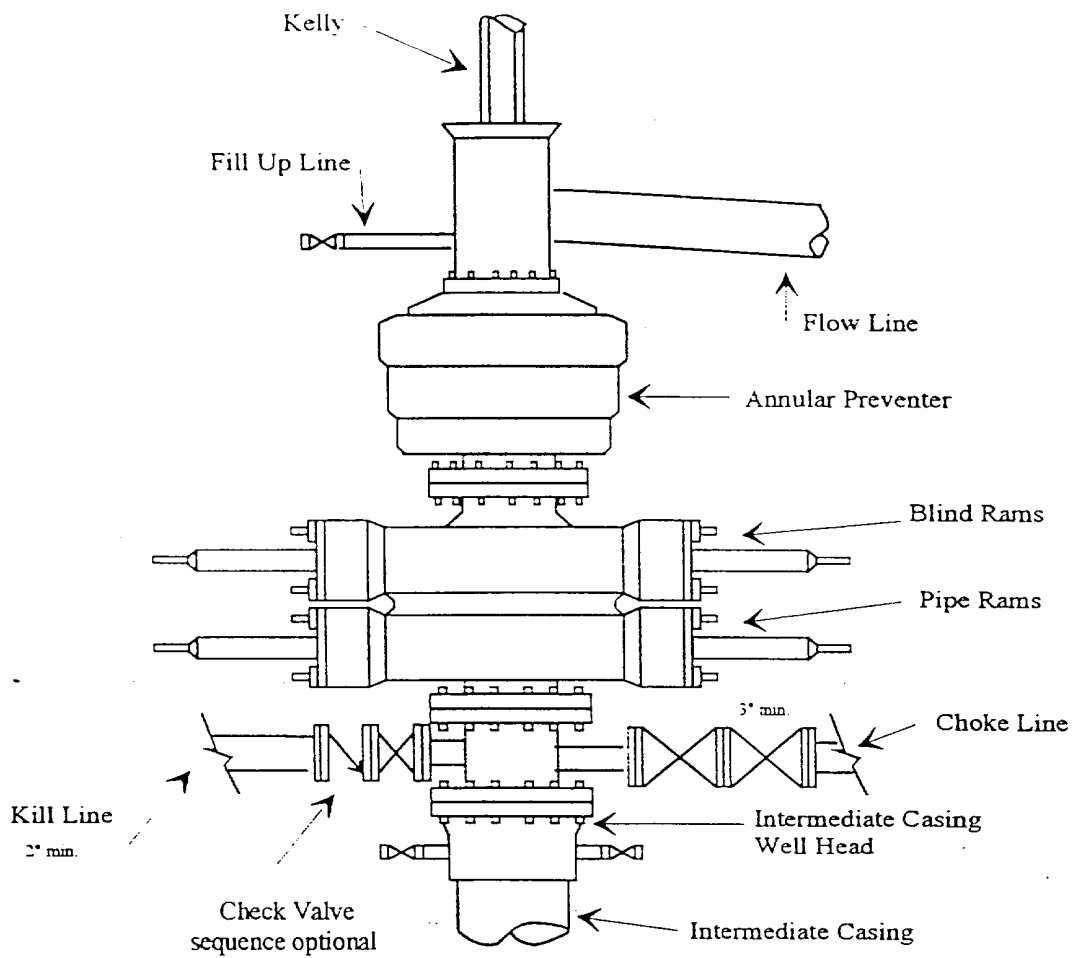
GO SOUTH OF ARTESIA ON HIGHWAY 285 FOR APPROXIMATELY 15 MILES. TURN WEST ON ROCK N R RED ROAD FOR APPROXIMATELY 5.3 MILES, THEN TURN SOUTH ON LEASE ROAD FOR 1/2 MILE, TURN EAST TO LOCATION.



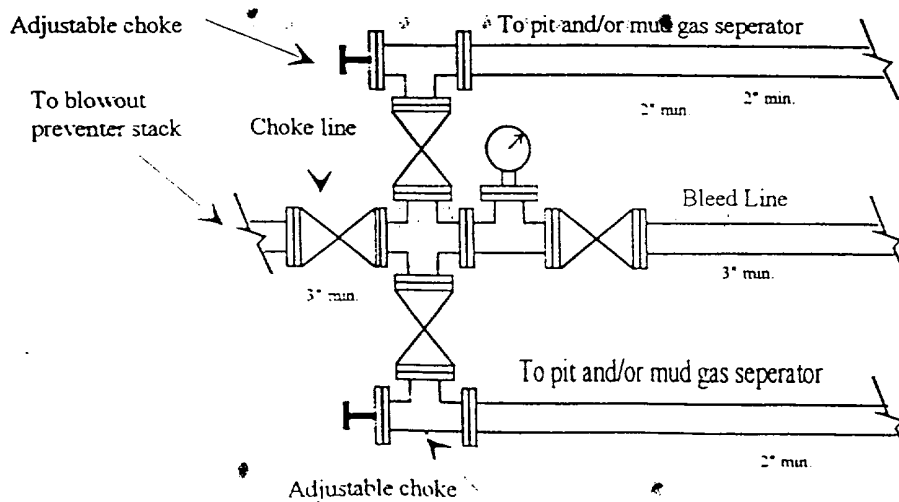
Yates Petroleum Corporation

BOP-3

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



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

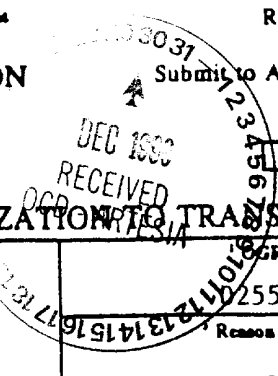


Act I
Act II
Act III
Act IV

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

C/SF
LT
GT
JP



REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210		OGRID Number 025575
Reason for Filing Code NW		
API Number 0 - 0 15-28405	Pool Name Dagger Draw Upper Penn, North	Pool Code 15472
Property Code 15788	Property Name Patriot AIZ	Well Number 6

10 Surface Location

or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South Line	Feet from the	East/West line	County
I	21	19S	25E		1980	South	660	East	Eddy

11 Bottom Hole Location

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

Las Code	Producing Method Code	Gas Connection Date	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date
P	P	11-25-98			

Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
000734	Amoco Pipeline Company 502 N. West Avenue Levelland, TX 79336	2814930	0	Unit G - Section 21-T19S-R25E
138648	Amoco P/L Int. Trucking 502 N. West Avenue Levelland, TX 79336	2814930	0	Unit G - Section 21-T19S-R25E
025561	Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210	2822412	G	Unit I - Section 21-T19S-R25E

Post ID-2
1-28-99
comp

Produced Water

POD	POD ULSTR Location and Description
2814932	Unit G - Section 21-T19S-R25E

Well Completion Data

Spud Date	Ready Date	TD	PSTD	Perforations
RH 10-24-98 RT 10-26-98	11-26-98	7790'		7632-7790' Open Hole
Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement	
26"	20"	40'	Cement to surface	
14-3/4"	9-5/8"	1142'	1300 sx - circulate	
8-3/4"	7"	7632'	1000 sx	
	6-1/8"			

Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Cog. Pressure
11-25-98	11-25-98	11-30-98	24 hours		
Choke Size	Oil	Water	Gas	AOF	Test Method
	163	91	243		Pump Test

I hereby certify that the rules 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.

Signature: *Rusty Klein*
Printed name: Rusty Klein
Title: Operations Technician
Date: December 28, 1998
Phone: 505-748-1471

OIL CONSERVATION DIVISION
Approved by: ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR
Title:
Approval Date: 1-4-99

If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

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-105
Revised 1-1-89

WELL API NO.
30-015-28405

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. Type of Completion: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIPP RESVR ☐ OTHER ☐

2. Name of Operator
YATES PETROLEUM CORPORATION (505) 748-1471

3. Address of Operator
105 South 4th St., Artesia, NM 88210

4. Well Location
Unit Letter I : 1980 Feet From The South Line and 660 Feet From The East Line
Section 21 Township 19S Range 25E NMPM Eddy County

10. Date Spudded
RH 10-24-98
RT 10-26-98

11. Date T.D. Reached
11-19-98

12. Date Compl. (Ready to Prod.)
11-25-98

13. Elevations (DFA & RKB, RT, GR, etc.)
3473' GR

14. Elev. Casinghead

15. Total Depth
7790'

16. Plug Back T.D.

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By
Rotary Tools 40-7790'
Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name
7632-7790' (Canyon) OPEN HOLE

20. Was Directional Survey Made
No

21. Type Electric and Other Logs Run
CNL/LDC, BHC & Laterolog

22. Was Well Cored
No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"		40'	26"	Cement to surface	
9-5/8"	36#	1142'	14-3/4"	1300 sx - circulate	
7"	26# & 23#	7632'	8-3/4"	1000 sx	
			6-1/8"		

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8"	7581'	

26. Perforation record (interval, size, and number)

None

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7632-7790'	Acidized w/15000 gals 20% gelled Dagger Draw acid w/2 drops of rock salt (1500# each drop)

28. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
11-25-98	Pumping	Producing

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
11-30-98	24			163	243	91	1491:1

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)
			163	243	91	42.6

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold - Connected to Dagger Draw Gas Processing

Test Witnessed By
Juan Fuentes

30. List Attachments
Drill Stem Test, Deviation Survey & Logs

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Rusty Klein Printed Name Rusty Klein Title Operations Tech. Date 12-28-98

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	T. Canyon	7620'	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn		T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka		T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss		T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian		T. Menefee	T. Madison
T. Queen	T. Silurian		T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya		T. Mancos	T. McCracken
T. San Andres	T. Simpson		T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee		Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger		T. Dakota	T.
T. Blinebry	T. Gr. Wash		T. Morrison	T.
T. Tubb	T. Delaware Sand		T. Todilto	T.
T. Drinkard	T. Bone Springs	3712'	T. Entrada	T.
T. Abo	T.		T. Wingate	T.
T. Wolfcamp	T.		T. Chinle	T.
T. Penn	T.		T. Permian	T.
T. Cisco (Bough C)	T.		T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0	1142	1142'	Surface				
1142	1605	463'	Anhydrite				
1605	3678	2073'	Dolomite & sand				
3678	4459	781'	Lime & dolomite				
4459	5527	1068'	Lime				
5527	5762	235'	Lime, dolomite & shale				
5762	6309	547'	Sand & dolomite				
6309	6485	176'	Shale				
6485	6665	180'	Lime & shale				
6665	7359	694'	Shale, lime & sand				
7359	7476	117'	Lime & shale				
7476	7571	95'	Shale				
7571	7647	76'	Lime & shale				
7647	7790	143'	Dolomite				

YATES PETROLEUM CORPORATION
Patriot AIZ #6
Section 21-T19S-R25E
Eddy County, New Mexico

RESULTS OF DRILL STEM TESTS:

DST #1 7173-7343' (Wolfcamp): TIMES: TO 20"; SI 60"; TO 430"; SI 180". RECOVERY:
3057' of gas cut mud with slight trace of condensate. SAMPLER: 4.69 cfg and 100
cc of oil. PRESSURES: IHP 4214; IFP 420-483; ISIP 4102; FFP 465-631; FSIP 3844

Yates Petroleum
Patriot AIZ #6
Eddy Co., NM

STATE OF NEW MEXICO
DEVIATION REPORT

255	1/4
582	3/4
884	1
1,621	1/4
2,116	3/4
2,614	1/4
3,113	1/4
3,605	1/4
4,100	3/4
4,596	1-3/4
4,751	2-1/4
4,866	2
5,116	2
5,466	2
5,932	1-1/4
6,396	3/4
6,830	1/4
7,322	3/4
7,627	1-1/4
7,790	2



By: Ray Peterson

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me
this 23rd day of November, 1998, by RAY PETERSON
on behalf of PETERSON DRILLING COMPANY.

Notary Public for Midland

My Commission Expires: 8/2/2000 County, Texas

