Form 3160-3 (August 2007) RECEIVED

JAN 1 1 2010

FORM APPROVED OMB NO. 1004-0137

UNITED STATES

BUREAU OF LAND MANAGEMENT

NMQCD ARTESIA DEPARTMENT OF THE INTERIO

Expires: July 31, 2010 5: Lease Serial No

	APPLICATION FOR PERI	טסו וווע	RILL OR REENTER U)	PP 1º	. If Indian, Affortee or In	be Name		
	DIRECTI	ONAL DRI			N/A			
				7	. If Unit or CA Agreemen	*		
la.	Type of Work x DRILL		REENTER		N/A			
					8 Lease Name and Well No			
1b.	Type of Well: X Oil Well Gas Well	Other	Single Zone Multiple Z	one	Martha AIK Federal #10 🕂			
2.	Name of Operator			9	. API Well No.			
	Yates Petroleum	Corporation	n 025575		30:015:37509			
3a.	Address		3b. Phone No (include area code)	10	10. Field and Pool, or Exploratory			
			505-748-1471	}				
	105 South Fourth Street, Artesia, NM 882		Livingston Ridg					
	Location of well (Report location clearly and In a	11	. Sec., T., R., M., or Blk.	And Survey or Area				
	At surface		FEL. UL Ø, SWEET NWSE	1				
	2310' F		Section 11-T22S-R31E					
	At proposed prod zone	10' FSL & :	1650' FWL, UL M, SEEW NESW					
14.	Distance in miles and direction from the nearest to			12	2. County or Parish	13. State		
	The well is about 40 n	niles east of	Carlsbad, NM.		Eddy	NM		
15.	Distance from proposed*		16. No. of acres in lease	17 Spacir	ng Unit dedicated to this w	/ell		
	location to nearest							
,	property or lease line, ft.			ł				
	(Also to nearest drlg. unit line, if any)	660'	560.00		NWNE			
18.	Distance from proposed location*		19. Proposed Depth	20 BLM/	BLM/ BIA Bond No. on file			
	to nearest well, drilling, completed,		8420 VD					
	applied for, on this lease, ft.	None	9077'	1	NATIONWIDE BOND #	NMB000434		
21.	Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Aproximate date work will	start*	23. Estimated duration	.		
	3588' GL		ASAP		1			
			24. Attachments					
The	following, completed in accordance with the requ	rements of C	Onshore Oil and Gas Order No. 1 shall l	be attached	to this form:			
			_					
	Well plat certified by a registered surveyor.			operations ι	inless covered by existing	bond on file(see		
	A Drilling Plan		'item 20 above).					
3.	A Surface Use Plan (1f the location is on National Forest System Lands, the 5 Operator certification							

25. Signature

SUPO must be filed with the appropriate Forest Service Office).

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

Operator certification

Such other site specific information and/ or plans as may be required by the BLM

Name (Printed/ Typed) Cy Cowan Title Regulatory Agent Approved By (Signature) /s/ Jesse J. Juen Name (Printed/ Typed) Date /s/ Jesse J. Juen DEC 16 2009 Title Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to co

operations thereon APPROVAL FOR TWO YEARS, Conditions of approval, if any, are attached Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and wilfully to make to any department or agency of the United

* (Instructions on page 2)

Carlsbad Controlled Water Basin

Witness Surface & Intermediate Casing SEE ATTACHED FOR

APPROVAL SUBJECT TO GENERAL REQUIREMENTS CONDITIONS OF APPROVATION SPECIAL STIPULATIONS ATTACHED

Form 3160-5 (February 2005) DEPA	OM OM	RM APPROVED IB No 1004-0137 res March 31, 2007			
BURE	5 Lease Seria	l No			
SUNDRY I		١	IM-65417		
Do not use this		6 If Indian, A	llottee or Tribe Name		
abandoned well.	Use Form 3160-3 (APD)	for such proposals		No	Applicable
SÜBMIT IN TR		A/Agreement, Name and/o			
Oil Well X Gas Well	Other (re-entry)			8 Well Name	and No.
2 Name of Operator				Martha	AIK Federal #10
Yates Petroleum Corporation	າ 025575			9. API Well N	0
3a Address		3b Phone No. (include	e area code)		
105 South Fourth Street, Arte	esia, NM 88210	(575) 748-1471		10. Field and P	ool, or Exploratory Area
4 Location of Well (Footage, Sec., 2	T, R, M, or Survey Descriptio	n) _	. ***	Livingsto	on Ridge Delaware
2310'	FSL & 1650' FEL Surfa	ace Hole		11. County or F	Parish, State
2310'	FSL & 1650' FWL Surf	ace Hole		F -1 -1 - 0	4 Nt N A
	Section 11-22S-31E			Eddy County, New Mexico	
12. CHECK THE APPR	OPRIATE BOX(ES) TO I	NDICATE NATURE O	F NOTICE, RE	EPORT, OR O	THER DATA
TYPE OF SUBMISSION		ТҮРЕ С	F ACTION		
☐ Notice of Intent ☐ Subsequent Report ☐ Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture Treat New Construction Plug and Abandon Plug Back	Production Reclamation Recomplete Temporarily Water Dispo	: y Abandon	Water Shut-Off Well Integrity Other Amend TD
13 Describe Proposed or Completed Operator the proposal is to deepen directionally or a Attach the Bond under which the work w following completion of the involved oper testing has been completed. Final Abando determined that the site is ready for final in	recomplete horizontally, give subsur- ill be performed or provide the Bond ations If the operation results in a r partient Notices must be filed only af	face locations and measured at I No on file with BLM/BIA multiple completion or recomp	nd true vertical dept Required subsequer letion in a new inter	hs of all pertinent n nt reports must be f val, a Form 3160-4	narkers and zones filed within 30 days must be filed once
Yates Petroleum Corporation			470' T	VO 1ez 11/1	3/09
Thank you.		CONVERSALOR	·····	121600	

Name (Printed/Typed) Armando Lopez Chief Land Regulatory Agent	
Signature Date November 10, 2009	
THIS SPACE FOR FEDERAL OR STATE USE	
Approved by /s/ Jesse J. Juen ACTITHIE STATE DIRECTOR DEC 1 6 2009	
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon	

Title 18 U S C Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United states in the statements or representations as to any matter within its jurisdiction.

DISTRICT I 1625 N. FRENCH DR , HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT IV

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

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

Γ	API Number	Pool Code	Pool Nam	ne /
	39 015 312t	39360	Livingston Ridge Dela	ware 🗸
Γ	Property Code		erty Name	Well Number
	12538	MARTHA "A	IK" FEDERAL	. 10 H
	OGRID No.	Oper:	ator Name	Elevation
	025575	YATES PETROLE	EUM CORPORATION	3588'

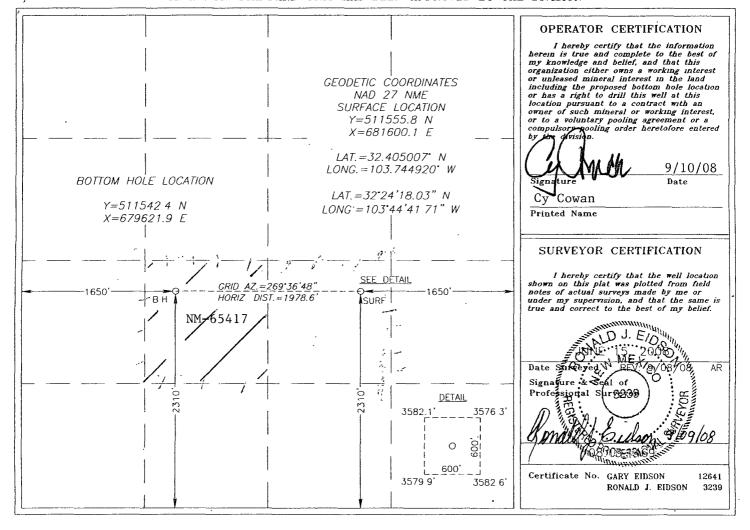
Surface Location

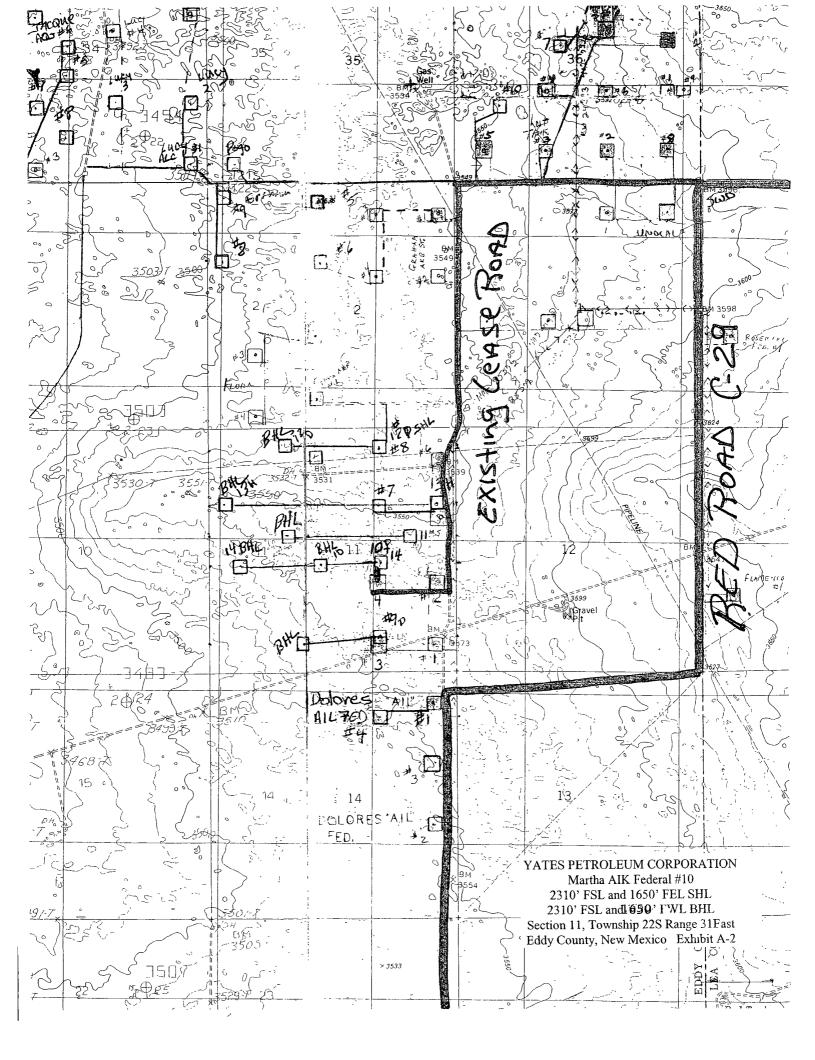
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	11	22-S	31-E		2310	SOUTH	1650	EAST	EDDY

Bottom Hole Location If Different From Surface

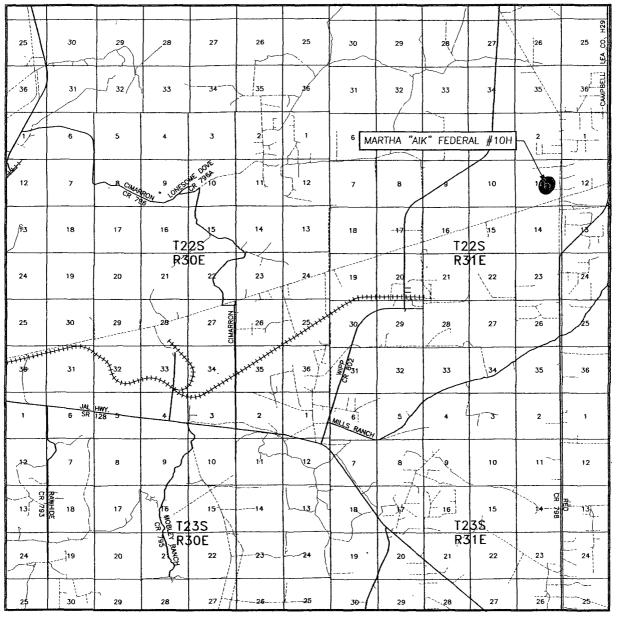
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Κ .	- 11	22-S	31-E	l	2310	SOUTH	1650	WEST	EDDY
Dedicated Acre	s Joint o	r Infill Co	nsolidation (Code Or	der No.				

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



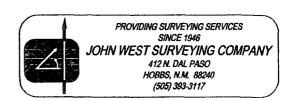


VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 11 TW	P. <u>22-S</u> RGE. <u>31-E</u>
SURVEY	N.M.P.M.
COUNTYEDD	Y STATE NEW MEXICO
-	310' FSL & 1650' FEL
_	3588'
	YATES PETROLEUM CORPORATION
	•
LEASE MARI	HA "AIK" FEDERAL



YATES PETROLEUM CORPORATION
Martha AIK Federal #10
2310' FSL and 1650' FEL SHL
2310' FSL and 1650 FWL BHL
Section 11, Township 22S Range 31East
Eddy County, New Mexico Exhibit A



SECTION 11, TOWNSHIP 22 SO		N.M.P.M., EW MEXICO
3582.1'	600'	3576.3'
OF 35	NORTH FFSET 686.3' YATES PETROLEUM CORPORATION Martha AIK Federal #10 2310' FSL and 1650' FEL SHL 2310' FSL and 1650' FWL BHL Section 11, Township 22S Range 31East Eddy County, New Mexico Exhibit A-1	mon mon
OFFSET 3581.9' LAT. = 32 LONG. = 10 LAT. = 32°	" FEDERAL #10H 150' EAST ○ □ OFFSET 3584.8' .405007° N 3.744920° ₩ 24'18.03" N	,000,
OF OF	□ SOUTH FFSET 885.9'	
	4-W O.H. ELEC. LN 600' AIK" FED. #4	3582.6'
DIRECTIONS TO LOCATION	,	
FROM THE INTERSECTION OF U.S. HWY. 62–180 AND CO. RD. #29, GO SOUTH ON CO. RD. #29 APPROX. 8.2 MILES. TURN RIGHT ON LEASE ROAD AND GO WEST APPROX. 1.0 MILE. TURN LEFT AND GO SOUTH APPROX. 1.7 MILES. TURN RIGHT AND GO WEST APPROX. 0.25 MILES TO THE EXISTING MARTHA "AIK" FED. #4 WELL PAD. THIS LOCATION IS NORTH APPROX. 330 FEET.	100 0 100 Scale:1"=100' YATES PETROLEUM COF MARTHA "AIK" FEDERAL #10H WELLOCATED 2310 FEET FROM THE SOUTH	LL H LINE
PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117	AND 1650 FEET FROM THE EAST LINE OF TOWNSHIP 22 SOUTH, RANGE 31 EAST, EDDY COUNTY, NEW MEXICO. Survey Date: 7/15/08 Sheet 1 W.O. Number: 08.11.1114 Dr By: AR Date: 7/18/08 Disk: 08111114	of 1 Sheets Rev 1:N/A Scale:1"=100'

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			EP157	2310' FSL and 650' FWL BHL 2310' FSL and 650' FWL BHL
		LOS		Section 11, Township 22S Range 31East File County New Mexico Exhibit D
		27	9185 7 7 7VA 26	Eddy County, New Mexico Exhibit D
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YATES PETROLEUM CORPORATION Martha AIK Federal #10 2310' FSL and 1650' FEL, Surface Hole 2310' FSL & 1650' FWL, Bottom Hole Section 11-T22S-R32E 719 Eddy County, New Mexico

The estimated tops of geologic markers are as follows: 1.

Rustler	755'	Livingston Ridge	7293'-oil
Top of Salt	1000'	Brushy Canyon	7583'-oil
Base of Salt	3958'	Bone Springs	8795'-oil
Bell Canyon	4547'	TD	9077'
Cherry Canyon	5631'-oil	TVO	8420

The estimated depths at which anticipated water, oil or gas formations are expected to 2. be encountered:

Water:

Oil or Gas: Oil Zones: 5631', 7293', 7583', and 8795'

- Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 3000# BOP 3. System. Pressure tests will be conducted before drilling out from under all casing strings, which are set and cemented in place. Blowout Preventer controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.
- Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment, and a sub with full 4. opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when Kelly is not in use.
- 5. THE PROPOSED CASING AND CEMENTING PROGRAM:

A. Casing Program: All new casing to be used

Length
850'
100'
 21001

•	Hole Size	Casing Size	Wt./Ft	<u>Grade</u>	Coupling	<u>Interval</u>	<u>Length</u>
	17 1/2"	13 3/8"	48#	H-40	ST&C	0-850'	850'
	11"	8 5/8"	32#	J-55	ST&C	0-100'	100'
	11"	8 5/8"	24#	J-55	ST&C	100-2200'	2100'
See	 11"	8 5/8"	32#	J-55	ST&C	2200-4050	1850'
CDA	7 7/8"	5.5"	17#	L-80	LT&C	0'-3400'	3400'
	7 7/8"	5.5"	i7#	J-55	LT&C	3400'-9077'	5677'

**the well will be orthodox at a depth of 6500' at 2310' FSL & 2310' FWL. Anything above 6500' will be unorthodox.

1. Minimum Casing Design Factors: Burst 1.0, Tensile Strength 1.8, Collapse 1.125

2. A 3000 psi BOPE will be nippled up on the 13 3/8" casing and tested to 3000 psi,

- B. CEMENTING PROGRAM:

Surface Casing: 450 sacks C Lite (WT 12.60 YLD 1.99). Tail in with 225 sacks C (WT 14.80 YLD 1.32). TOC surface.

Intermediate Casing: 900 sacks of Hal LtPr+C (WT 12.60 YLD 1.99). Țail in with 225 sacks C (WT 14.80 YLD 1.32.). TOC at surface.

Production Casing: Stage One: 425 sacks PecoVILt (WT 13.00 YLD 1.41). Top of Cement approx. 7400'.

Second Stage: Lead with 275 sacks Lite Crete (WT 9.90 YLD 3.19). Tail in with 100 sacks PecosVILt (WT 13.00 YLD 1.40). **DV tool at 7400' TVD.** Top of Cement approximately 4500'.

Stage Three: Lead in with 450 sacks Lite Crete (WT 9.90 YLD 3.19) Tail in with 100 sacks PecosVILt (WT 13.00 YLD 1.40). **DV tool at 4500' TVD.** Top of Cement surface.

6. MUD PROGRAM AND AUXILIARY EQUIPMENT: .

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	Viscosity	Fluid Loss
0-850	Fresh Water Gel	8.60-9.20	32-34	N/C
850-4050	Brine Water	10.00-10.20	28-28	N/C
4050-6963	Cut Brine	8.70-9.10	28-28	N/C
6963-8874	Cut Brine	8.50-9.10	28-28	10.0-15.0

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Rig personnel will check mud hourly.

7. EVALUATION PROGRAM:

Samples: Every 10' from intermediate casing to TD

- Logging: Platform Express; CMR

Coring: None anticipated

DST's: None Anticipated Mudlogging: Yes

COA

8. ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE, AND POTENTIAL HAZARDS:

Maximum Anticipated BHP:

0'-850' 400 PSI 850'-4050' 2150 PSI 4050'-8600' 4070 PSI 8420

Abnormal Pressures Anticipated: None Lost Circulation Zones Anticipated: None. H2S Zones Anticipated: None Anticipated Maximum Bottom Hole Temperature: 150 F

9. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 45 days to drill the well with completion taking another 20 days.

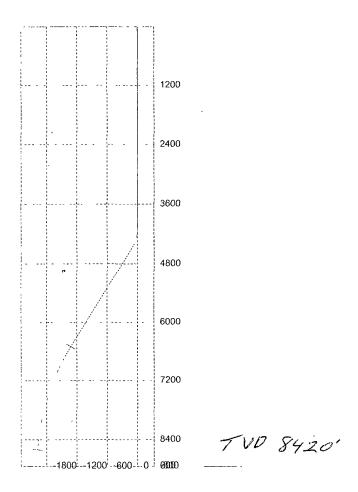
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7025	28.87	270	6646.77	0	-1404 41	1 23	180	HS	
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7075	28 25	270	6690 69	0	-1428.31	1.23	180	HS	
7100	27.95	270 270	6712 74 6734 85	0	-1440 09	1 23 1 23	180 180	HS HS	
7125 7150	27 64 27 33	270	6757.03	0	-1451 75 -1463 28	1 23	180	HS	
7175	27 02	270	6779 27	0	-1474.7	1 23	180	HS	
7200	26 72	270	6801 57	0	-1474.7	1 23	180	HS	
7225	26 41	270	6823 93	0	\-1497 18	1 23	180	HS	
7250	26 1	270	6846.35	0	-1508 24	1 23	180	HS	
7275	25 8	270	6868 83	Ö	-1519 18	1 23	180	HS	
7293	25 58	270	6885.06	/0	-1526.99	1 23	180	HS	LIVINGSTON RIDGE
7300	25 49	270	6891 37	0	-1530	1.23	180	HS	
7325	25 18	270	6913 97	0	-1540.7	1 23	180	HS	
7350	24 88	270	6936 62	0	-1551.28	1 23	180	HS	
7375	24.57	270	6959.33	0	-1561 73	1.23	180	HS	
7400	24 26	270	6982 09	0	-1572 07	1.23	180	HS	
7425	23 96	270	7004 91	0	1582 28	1.23	180	HS	
7450	23 65	270	7027 78	0	-1592 37	1 23	180	HS	
7475	23.34	270	7050 71	0	-1602 34	1 23	180	HS	
7500	23 04	270	7073 69	0	-1612.18	1.23	180	HS	
7525	22 73	270	7096.72	0	-1621 9	1.23	180	HS	
7550 7575	22 42 ' 22 12	270 270	7119 81 7142 94	0	-1631 5 1640 98	1 23 1 23	180 180	HS HS	
7575 7583	22.02	270	7142 94	0	-1640 98 -1643 98	1.23	180	HS HS	BRUSHY CANYON
7600	21.81	270	7166 13	0	-1650 33	1.23	180	HS	DRUSTII CANTUN
7625	21.01	270	7189 36	0	-1659 55	1 23	180	HS	
7650	21 2	270	7212 65	0	-1668 65	1 23	180	HS	
7675	20 89	270	7235 98	0	-1677 63	1 23	180	HS	
7700	20 58	270	7259 36	Ö	-1686 48	1 23	180	HS	
7725	20 28	270	7282 79	Ö	-1695 21	1.23	180	HS	
7750	19 97	270	7306 26	Ö	-1703.81	1 23	180	HS	
7775	19.66	270	7329 78	0	-1712.28	1 23	180	HS	
7800	19 35	270	7353 35	0	-1720 63	1.23	180	HS	
7825	19 05	270	7376 96	0	-1728 85	1 23	180	HS	
7850	18 74	270	7400 61	0	-1736 95	1 23	180	HS	
7875	18 43	270	7424.3	0	-1744 92	1 23	180	HS	
7900	18 13	270	7448 04	0	-1752 76	1 23	180	HS	
7925	17 82	270	7471 82	0	-1760 47	1 23	180	HS	
7950	17 51	270	7495 64	0	-1768 06	1 23	180	HS	
7975	17 21	270	7519.51	0	-1775 52	1.23	180	HS	

8000	16.9	270	7543 41	0	-1782 85	1 23	180	HS	
8025	16.59	270	7567 34	0	-1790 06	1 23	180	HS	
8050	16.29	270	7591 32	0	-1797 13	1.23	180	HS	
8075	15 98	270	7615.34	0	-1804.08	1.23	180	HS	
8100	15 67	270	7639.39	0	-1810.9	1.23	180	HS	
8125	15.37	270	7663.48	0	-1817 59	1 23	180	HS	
	15.37_	270	7687.6	0	-1824.15	1 23	180	HS	
8150 8175	14.75	270	7711 76	0	-1830 58	1 23	180	HS	
			7735.95	0	-1836.88	1.23	180	HS	
8200	14 45	270							
8225	14.14	270	7760.18	0	-1843.05	1.23	180	HS	
8250	13 83	270	7784 44	0	-1849 09	1 23	180	HS	
8275	13.53	270	7808 73	0	-1855 01	1 23	180	HS	·
8300	13 22	270	7833 05	0	-1860.79	1.23	180	HS	
8325	12 91	270	7857.41	0	-1866.44	1.23	180	HS	
8350	12 61	270	7881 79	0	-1871 96	1.23	180	HS	
8375	123	270	7906 2	0	-1877 35	1 23	180	HS	
8400	11 99	270	7930 64	0	-1882 61	1 23	180	HS	
8425	11.68	270	7955 11	0	-1887.74	1.23	180	HS	
8450	11.38	270	7979.6	0	-1892.74	1.23	180	HS	
8475	11 07	270	8004 13	0	-1897 6	1.23	180	HS	
8500	10 76	270	8028 67	0	-1902 34	1 23	180	HS "	
8525	10 46	270	8053 24	0	-1906 94	1.23	180	HS	
8550	10 15_	270	8077 84	0	-1911.41	1 23	180	HS	
8575	9 84	270	8102.46	0	-1915.75	1.23	180_	HS	
8600	9.54	270	8127 11	0	-1919.96	1 23	180	HS	
8625	9.23	270	8151 77	0	-1924 04	1 23	180	HS	
8650	8 92	270	8176 46	0	-1927.98	1.23	180	HS	
8675	8 62	270	8201 17	0	-1931.79	1.23	180	HS	
8700	8.31	270	8225 89	0	-1935 47	1 23	180	HS	
8725	8	270	8250.64	0	-1939 02	1 23	180	HS	
8750	77	270	8275 41	0	-1942 44	1 23	180	HS	
8775	7 39	270	8300 19	0	-1945.72	1 23	180	HS	
8795	7 14	270	8320 03	0	-1948.25	1.23	180	HS	BONE SPRINGS
8800	7 08	270	8324 99	0	-1948 87	1.23	180	HS	
8825	6 78	270	8349.81	0	-1951 88	1 23	180	HS	
8850	6 47	270	8374 64	0	-1954.77	1 23	180	HS	
8856 57	6 39	270	8381 17	0	-1955 5	0			
1.9076·77	6.39	承蒙☆270、等意	2 8600 · · ·	J. 10 1950	a.5a -1980 5	2 5 Oct 32	第四条图像	A CONTRACTOR OF THE PROPERTY O	Tall of TDings
			841201	<u> </u>			4		

Well will be drilled vertically to approx 4100'. At 4100' well will be kicked off and directionally drilled at 8 degrees per 100' with a 7 7/8" hole to 9,077' MD 8,600' TVD where 5 1/2" casing will be set and cemented

3D³ Directional Drilling Planner - 3D View

Company: Yates Petroleum Corporation Well: Martha AIK Federal #10



File: C.\Program Files\Drilling Toolbox 2001\Templates\Visual Wellbore\Directional\martha10(build and hold)2.wpp

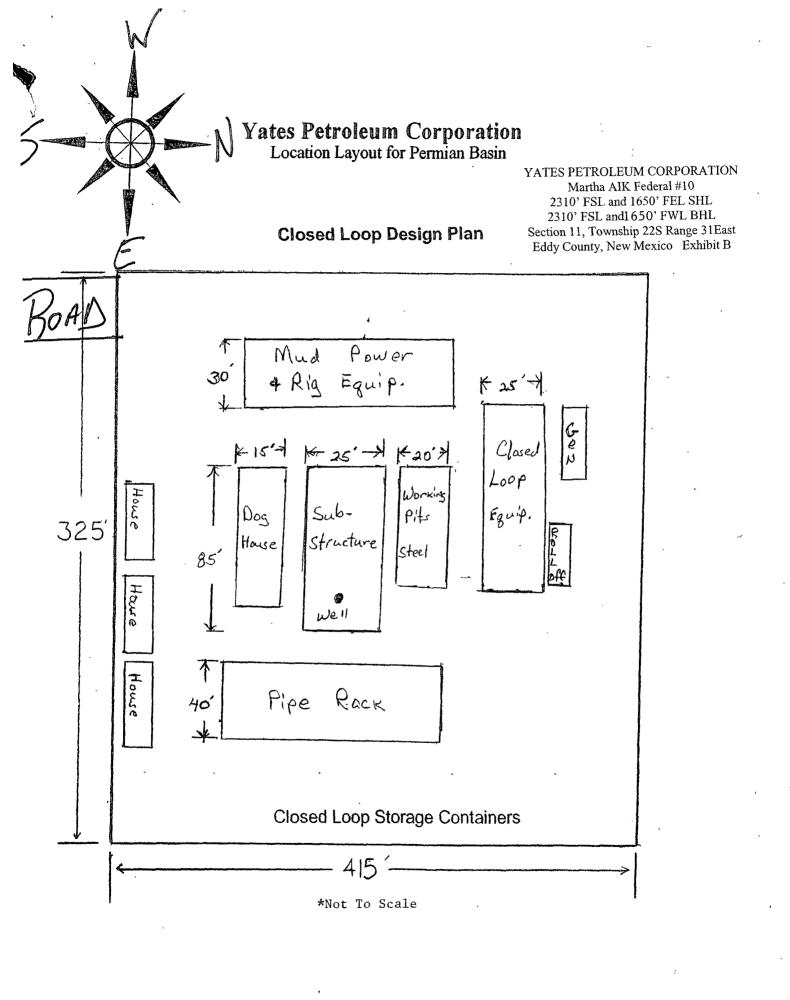




Company: Yates Petroleum Corporation Well: Martha AIK Federal #10



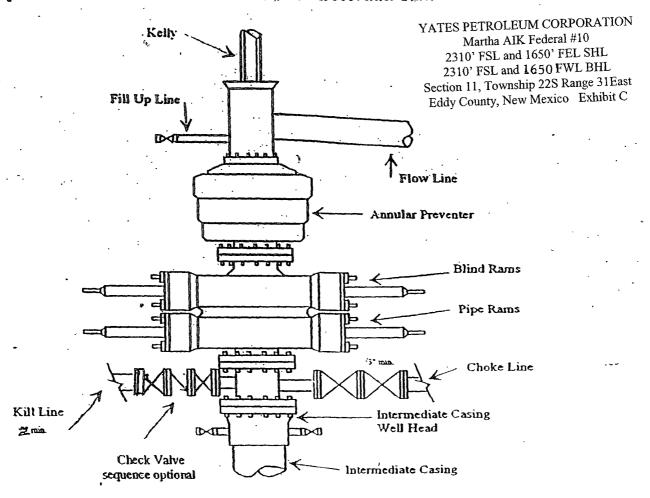
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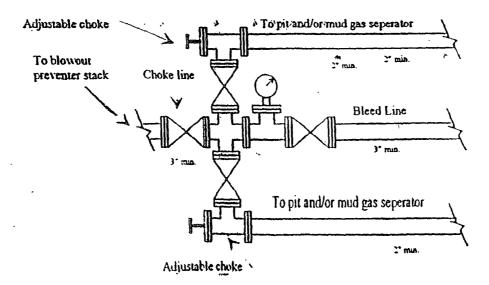


Yates Petroleum Corporation

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



Yates Petroleum Corporation Closed Loop System

Equipment Design Plan

Closed Loop System will consist of:

- 1 double panel shale shaker
- 1 (minimum) Centrifuge, certain wells and flow rates may require 2 centrifuges On certain wells, the Centrifuge will be replaced by a Clackco Settling Tank System
- 1 minimum centrifugal pump to transfer fluids
- 2-500 bbl. FW Tanks
- 1 500 bbl. BW Tank
- 1 half round frac tank 250 bbl. capacity as necessary to catch cement / excess mud returns generated during a cement job.
- 1 Set of rail cars / catch bins

Certain wells will use an ASC Auger Tank

Operation Plan

All equipment will be inspected at least hourly by rig personnel and daily by contractors personnel.

Any spills / leaks will be reported to YPC, NMOCD, and cleaned up without delay.

Closure Plan

Drilling with Closed Loop System, haul off bins will be taken to Gandy Marley, Lea Land Farm or CRI.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION

Martha AIK Federal #10 2310' FSL & 1650' FEL, Surface Hole 2310' FSL & 1650' FWL, Bottom Hole Section 11-T22S-R31E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit A is a portion of the BLM map showing the well and roads in the vicinity of the proposed location. The proposed well site is located approximately 38 miles west and north of Jal, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS: Go east out of Carlsbad, New Mexico on 62/180 to the Halfway Watering Hole. Continue east for approximately 0.7 of a mile to Campbell Road (C-29). Turn south and go approximately 8.2 miles to a lease road on the west side of the road. Turn west and go approximately 1 mile. Turn left and go south approximately 1.7 miles. Turn right and go west to the Martha #4 well pad. From the northwest corner of the #4 pad go north for approximately 330' to the southwest corner of the proposed Martha AIK Federal #10 well location.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 330' in length from the point of origin to the southwest corner of the drilling pad.
- B. The new road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. The new road will be bladed with drainage on both sides. No traffic turnout may be needed.
- D. The route of the road is visible.
- E. Existing roads will be maintained in the same or better condition.

3. LOCATION OF EXISTING WELL:

- A. There is drilling activity within a one-mile radius of the well site.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed well site.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. There are production facilities on this lease at the present time.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power until an electric line can be built, if needed.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a brine water system. The water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

6. SOURCE OF CONSTRUCTION MATERIALS:

The dirt contractor will be responsible for finding a source of material for construction of road and pad and will obtain any permits that may be required.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. A closed loop system will be used to drill this well instead of reserve pits.
- B. A closed loop system will be constructed, maintained and closed in compliance with the State of New Mexico, Energy and Natural Resources Department, Oil Conservation Division—the "Pit Rule" 19.15.17 NMAC. Form C-144 attached.
- C. Drilling fluids will be removed after drilling and completions are completed.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not approved.

8. ANCILLARY FACILITIES: NONE

9. WELLSITE LAYOUT:

- A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, pulling unit orientation and access road approach. Note: Pits to north.
- B. The closed loop system will be constructed, maintained, and closed in compliance with the State of New Mexico, Energy and Natural Resources Department, Oil Conservation Division the "Pit Rule" 19.15.17 NMAC. Form C-144 is attached.
- C. A 600' x 600' area has been staked and flagged.

10. PLANS FOR RESTORATION:

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the well site in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have dried and been leveled.
- C. If the proposed well is plugged and abandoned, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits, if any, will be filled level after they have evaporated and dried. Pit reclamation will meet 19.15.17 requirements.

Martha AIK Federal #10 Page Three

11. SURFACE OWNERSHIP:

Federal Lands under the supervision of the Carlsbad BLM. .

12. OTHER INFORMATION:

- A. The primary use of the surface is for grazing.
- B. Refer to the archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, and historical and cultural sites.

CERTIFICATION YATES PETROLEUM CORPORATION Martha AIK Federal #10

I hereby certify that I or the company I represent, have inspected the drill site and access route proposed herein; that the company I represent is familiar with the conditions which currently exist; that full knowledge of state and federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that the company I represent is responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 3rd day of Suptimber 2008.
Printed Name Cy Cowan
Signature
Position Title Regulatory Agent
Address 105 South Fourth Street, Artesia, NM 88210
Telephone <u>575-748-4372</u>
E-mail (optional) cyc@ypcnm.com
Field Representative (if not above signatory) <u>Tim Bussell</u>
Address (if different from above) Same
Telephone (if different from above) 575-748-4221
E-mail (optional)

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Yates Petroleum Corporation
LEASE NO.:	
WELL NAME & NO.:	Martha AlK Federal #10
SURFACE HOLE FOOTAGE:	
BOTTOM HOLE FOOTAGE	2310° FSL & 1650° FWL
LOCATION:	Section 11, T. 22 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General Provisions
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Noxious Weeds
Special Requirements
Lesser Prairie Chicken
Ground Level Abandoned Well Marker
Construction
Notification
Topsoil Sangaran
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
Drilling
WIPF Requirements
R-111-P potash
Logging requirements
Production (Post Drilling)
Well Structures & Facilities
Pipelines
Électric Lines
Closed Loop System/Interim Reclamation
Final Abandonment/Feclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders. Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Lesser Prairie Chicken and Low Profile Well Marker

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline road, and we'l pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notity the Carlstad Field Office at (505) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. Closed Loop System

Tanks whe required for deliving operations; No First

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D. F FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (505) 234-5972.

E. WELL, PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs:

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates; ecodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

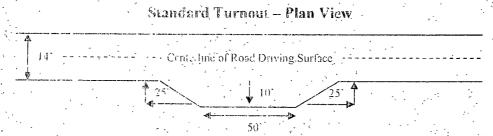
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1. cross section and plans for typical road construction.

Ditching

Ditchias shall a recorded as both sides of the read,

Turnouis

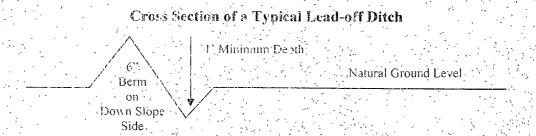
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:



Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water; into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: $\frac{100'}{4\%}$ + 100' = 200' tead-off ditch interval

Culvert Enstallations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access toad shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

'A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

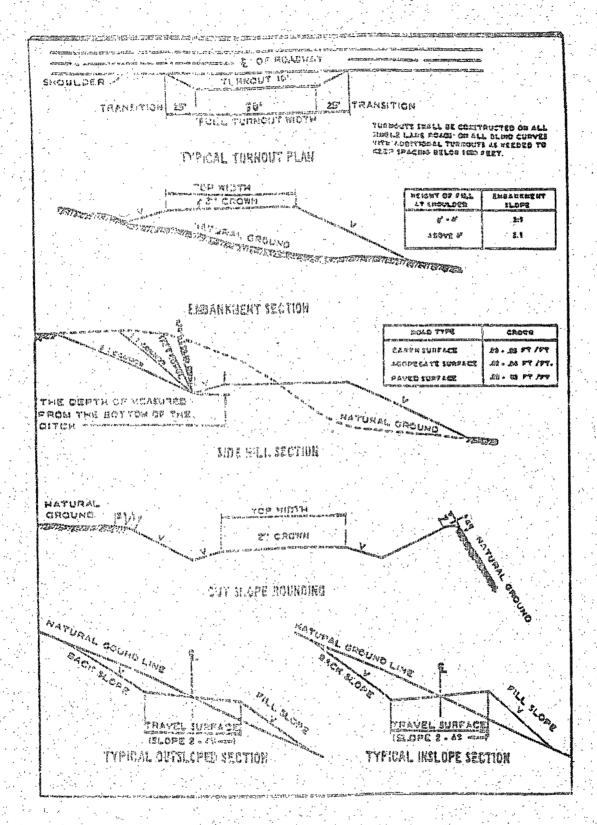
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 - Cross Sections and Plans For Typical Road Sections



VII. DRILLING

AL . DRICEING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing sarings
- c. BOPF tests

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in this section, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.
- 2. Unless the production easing has been run and cemented or the well has been properly plugged, the crilling jig shall not be removed from over the hole without prior approval.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table: the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the CAL/GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on consect (WOC) time for a primary sement job will be a minimum 18 hours for a water busin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all easing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual easing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

R-111-P patash.

Possible lost circulation in the Delaware and Bone Spring formations.

Possible brine/water flows in the Salado and Castile Groups.

- 1. The 13-3/8 inch surface easing shall be set at approximately 850 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If the salt is encountered at a shallower depth, the casing must be set 25' above the top of the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cament to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 8-5/3 inch intermediate casing is:

 The casing is to be set in the Lamar Limestone or Fletcher Anhydrite at a minimum of 100' and not more than 600' below the base of the salt. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cereent (WOC) time for a primary coment job is to include the lead content slurry due to R-111-P potash.

- 3. The minimum required fill of coment behind the 5-1/2 inch production casing is:
 - a. Pirst stage to DV tool, cement shall:
 - Cement to circulate. If cement does not circulate; contact the appropriate BLM office, before proceeding with second stage cement job.
 - b. Second stage aliese DV tool, comen shall:
 - Cement to circulate. If cement does not circulate: contact the appropriate BLM office, before proceeding with third stage cement job.
 - c. Third stage above DV tool, cement shall:
 - Cement to circulate. It cement does not circulate, contact the appropriate BLM office.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 5. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshote Oil and Gas Order No. 2 and API RP 53

 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment. (BOPE) required for drilling below the 13-3/8° surface casing shoe shall be 3000 (3M) psi.
- 3. The appropriate ELM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company,
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

d. The BOP/BOPI rest shall include a low pressure lest from 250 to 300 psi.
The test will be held for anninimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

D. DRILL STEM TEST

If drill stom tosts are performed. Onshore Order 2 III.D shall be followed...

E. WIPP Requirences

The proposed well is located over 330' of the WIPP Land Withdrawal Area boundary. As a result, Yates Petroleum Corporation is requested, but not required to submit daily logs and deviation survey information to the Department of Energy per requirements of the Joint Fowers Agreement. Information from this well will be included in the Quarterly Drilling Report. Information will also be provided to the New Mexico Oil Conservation Division after drilling activities have been completed. Any future entry into the well for purposes of completing additional drilling will require supplemental information.

Yates Petroleum Corporation can email the required information to Ms. Susan McCauslin at awar megashing exipp, we or fax to her attention at 575-234-6003.

RGH 102609

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Sacilities

Production facilities should be placed on the well had to allow for maximum interim recontouring and revegeration of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above ground structures including meter ho using that are not subject to safety requirements shall be painted a flat non-reflective paint color. Shale Green, Munsell Soil Color Chart # 57.4/2.

B. PIPELINES

C. C. BELECTRIC LINES

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. CONTERM RECLAMATION

If the well is a producer, interior reclamation will be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent). Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interan reclamation in order to minimize the environmental impacts of development on other resources and uses.

The operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed

BLM SERIAL#: 12 COMPANY REFERENCE: WELL#& NAMÉ

Seed Mixture 2, for Sandy Sites

The holder stand seed all distanced areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months erior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubted. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Cond disease of Changle during the day	
Count divers and (Changle has been the desired	
Sand dropseed (Sporobolusieryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Rhains bristlegrass (Setaria macrostachya)	2.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed (Insert Seed Mixture Here)

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonners of the well and/or when the addess road is no longer in service the Authorized Officer shall associations and/or orders for surface reclamation and restoration of all disturbed areas.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well-the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

On private surface/federal material estate and the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement