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Form 3160-3
(August 2007)

NMOCD ARTESIA

OCD Artesia

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

R-III Potash
WIPP

A75-08-1028

EA-09-215

RM

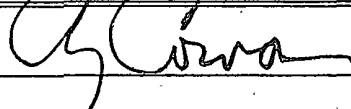
FORM APPROVED
OMB NO 1004-0137
Expires: July 31, 2010

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM-654127 9-9-08 CR	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A	
2. Name of Operator OIL well person conversation with Armando Lopez 11/6/09 CRL		7. If Unit or CA Agreement, Name and No. N/A	
3a. Address Yates Petroleum Corporation 025575 105 South Fourth Street, Artesia, NM 88210		8. Lease Name and Well No. Martha ATK Federal #11	
3b. Phone No. (include area code) 505-748-1471		9. API Well No. 30-015-37510	
4. Location of well (Report location clearly and in accordance with any State requirements. *) At surface 2310' FNL & 990' FEL, UL H, SENE At proposed prod. zone 2310' FNL & 1650' FWL, UL F, SENW		10. Field and Pool, or Exploratory Livingston Ridge Delaware	
14. Distance in miles and direction from the nearest town or post office* The well is about 41 miles east of Carlsbad, NM.		11. Sec., T., R., M., or Blk. And Survey or Area Section 11-T22S-R31E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 990'		12. County or Parish Eddy	
16. No. of acres in lease 560.00		13. State NM	
17. Spacing Unit dedicated to this well SENW			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. None		19. Proposed Depth 8410 VD ABH 2142' MD 11/19/07	
20. BLM/ BIA Bond No. on file NATIONWIDE BOND #NMB000434			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3564 GL		22. Approximate date work will start* ASAP	
23. Estimated duration			

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by existing bond on file (see item 20 above).
5. Operator certification.
6. Such other site specific information and/ or plans as may be required by the BLM

25. Signature 	Name (Printed/ Typed) Cy Cowan	Date 9/5/08
Title Regulatory Agent		
Approved By (Signature) /s/ Jesse J. Juen	Name (Printed/ Typed) /s/ Jesse J. Juen	Date DEC 16 2008
Title ACTING STATE DIRECTOR	Office NM STATE 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 conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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

* (Instructions on page 2)

Approval Subject to General Requirements
& Special Stipulations Attached

Carlsbad Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Yates Petroleum Corporation 025575

3a. Address
105 South Fourth Street, Artesia, NM 88210

3b. Phone No. (include area code)
(505) 748-1471

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2310' FNL and 990' FEL Surface Hole Location, UL H
2310' FNL and 1650' FWL Bottom Hole Location, UL F
Section 11, T15S-R31E

5. Lease Serial No.

NM-65417

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/o

8. Well Name and No

Martha AIK Federal #11

9. API Well No.

10. Field and Pool, or Exploratory Area

Livingston Ridge Delaware

11. County or Parish, State

Eddy County, New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other change
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	drilling plans &
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	casing, etc.

13. Describe Proposed or Completed Operation Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA Required subsequent reports must be filed within 30 days following completion of the involved operations If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Yates Petroleum Corporation wishes to change the Drilling Plan for the captioned well. Attached please find the new drilling plan and engineering plats.

Please note changes in the formation tops, casing depths, kick off point, cementing and mud programs.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Cy Cowan

Title

Land Regulatory Agent

Signature

Date

November 12, 2009

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

/s/ Jesse J. Juen

ACTING

STATE DIRECTOR

Date

DEC 16 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

Office

NM STATE OFFICE

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

(Instructions on reverse)

DISTRICT I

1625 N FRENCH DR., S09BS, NM 88240

State of New Mexico

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

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1625 S ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37510	Pool Code 3936C	Pool Name Livingston Ridge, Delaware
Property Code 12538	Property Name MARTHA "AIK" FEDERAL	Well Number 11
OGRID No. 025575	Operator Name YATES PETROLEUM CORPORATION	Elevation 3564'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	11	22-S	31-E		2310	NORTH	990	EAST	EDDY

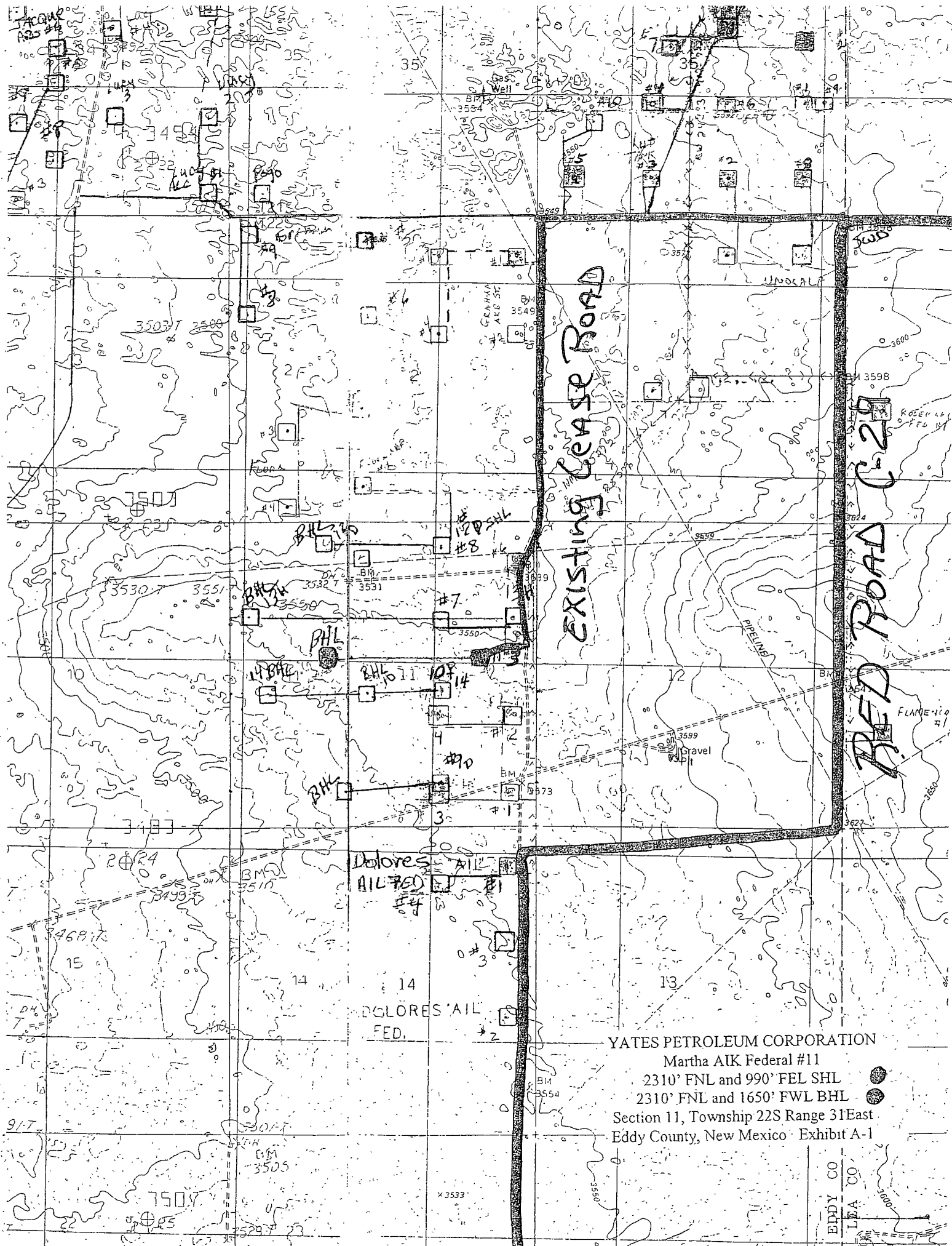
Bottom Hole Location If Different From Surface

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

Dedicated Acres 10 180	Joint or Infill	Consolidation Code	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

<p>DETAIL</p> <p>3555.6' 3553.4' 600' 3576.7' 3567.9'</p> <p>2310' 1650' 990'</p> <p>GRID AZ = 269°34'20" HORIZ DIST = 2639.1'</p> <p>SEE DETAIL</p> <p>BOTTOM HOLE LOCATION Y=512204.0 N X=679618.0 E</p> <p>GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=512223.7 N X=682256.4 E</p> <p>Penetration Point • 2310' FNL + 2310' FWL</p> <p>LAT. = 32.406833° N LONG. = 103.742781° W</p> <p>LAT = 32°24'24.60" N LONG = 103°44'34.01" W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>Cy Cowan</i> Date: 9/5/08</p> <p>Printed Name: Cy Cowan</p> <hr/> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date Surveyed: AUG 15 2008</p> <p>Signature & Seal of Professional Surveyor: <i>Ronald J. Eidson</i> 3239</p> <p>Certificate No. GARY EIDSON 12641 RONALD J EIDSON 3239</p>
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EXISTING LEASE ROAD

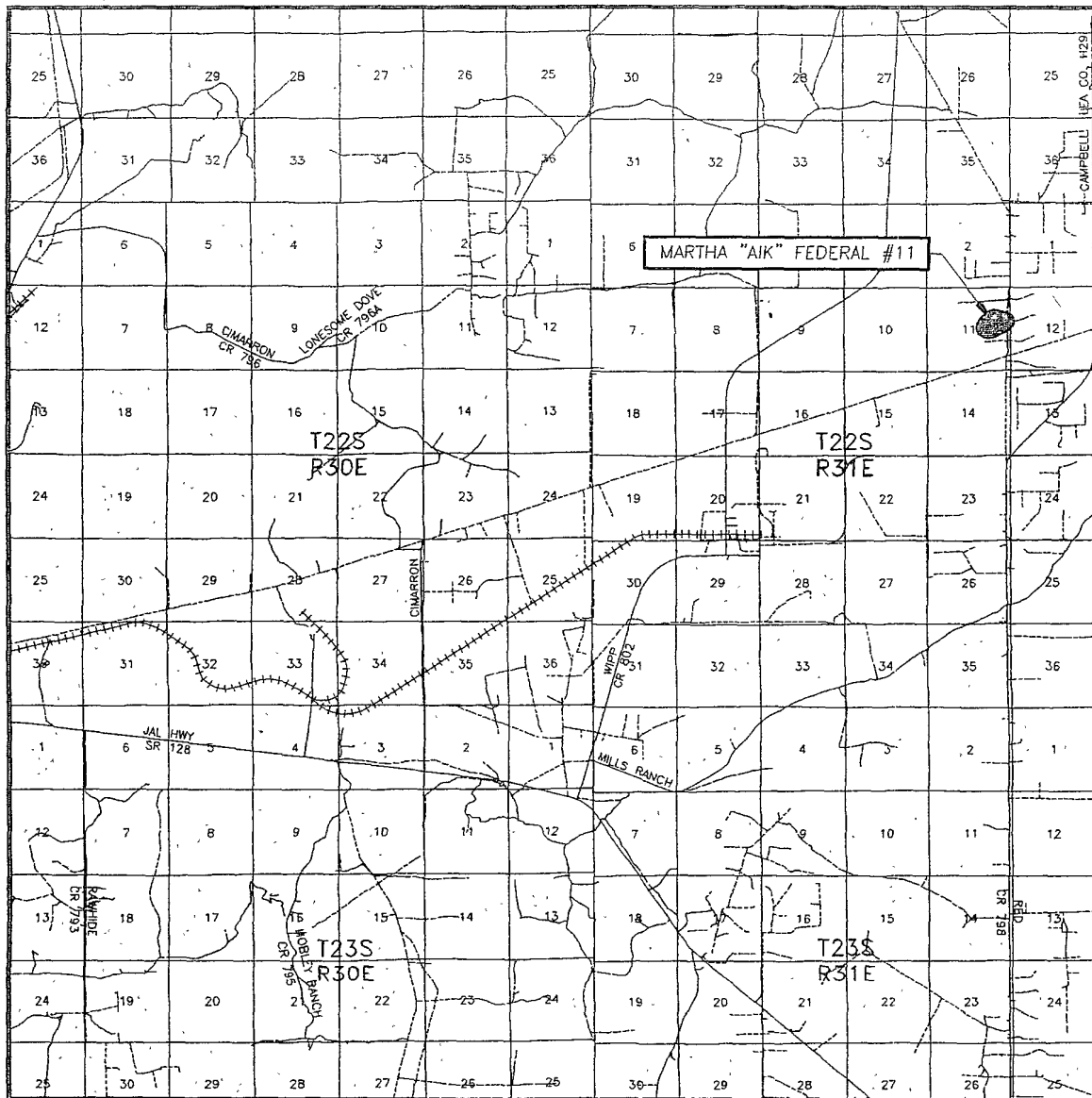
RED ROAD C-29

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YATES PETROLEUM CORPORATION
Martha AIL Federal #11
2310' FNL and 990' FEL SHL
2310' FNL and 1650' FWL BHL
Section 11, Township 22S Range 31East
Eddy County, New Mexico Exhibit A-1


EDDY CO
LEA CO

VICINITY MAP



SCALE: 1" = 2 MILES

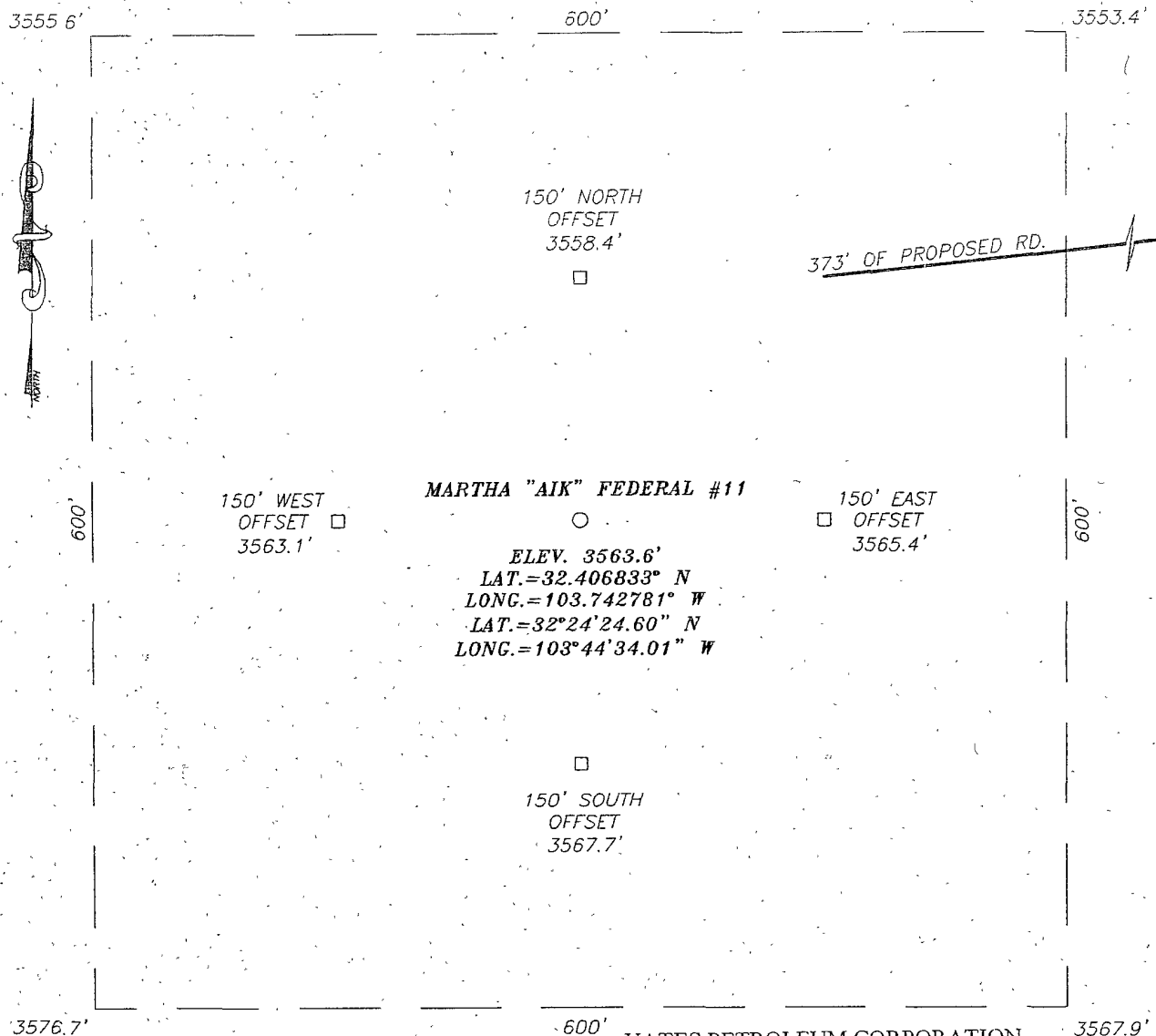
SEC. 11 TWP. 22-S RGE. 31-E
 SURVEY N.M.P.M.
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 2310' FNL & 990' FEL
 ELEVATION 3564'
 OPERATOR YATES PETROLEUM CORPORATION
 LEASE MARTHA "AIK" FEDERAL



PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117

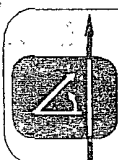
YATES PETROLEUM CORPORATION
 Martha AIK Federal #11
 2310' FNL and 990' FEL SHL
 2310' FNL and 1650' FWL BHL
 Section 11, Township 22S Range 31East
 Eddy County, New Mexico Exhibit A

SECTION 11, TOWNSHIP 22 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO



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. 1.5 MILES TO THE MARTHA
#5 LOCATION. FOLLOW ROAD SURVEY FROM THE
SOUTHWEST CORNER OF PAD APPROX. 373. FEET
WEST TO THIS LOCATION.



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

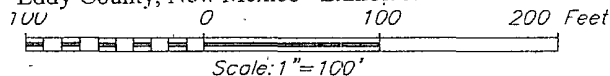
YATES PETROLEUM CORPORATION

Martha AIK Federal #11

2310' FNL and 990' FEL SHL

2310' FNL and 1650' FWL BHL

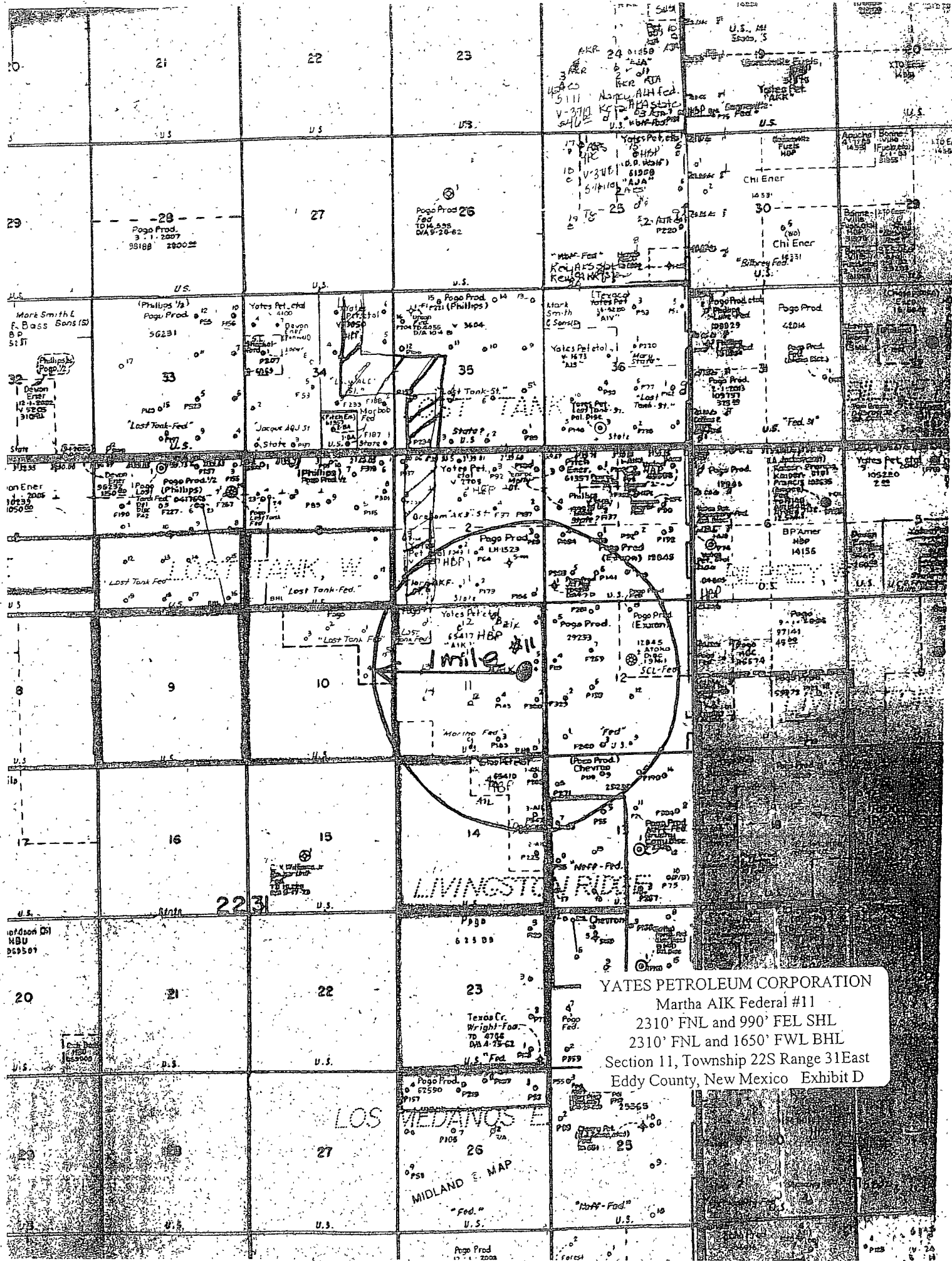
Section 11, Township 22S Range 31East
Eddy County, New Mexico Exhibit A-2



YATES PETROLEUM CORPORATION

MARTHA "AIK" FEDERAL #11 WELL
LOCATED 2310 FEET FROM THE NORTH LINE
AND 990 FEET FROM THE EAST LINE OF SECTION 11,
TOWNSHIP 22 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

Survey Date: 8/8/08	Sheet 1 of 1 Sheets
W.O. Number: 08.11.1115	Dr By: LA Rev 1: N/A
Date: 8/14/08	08111115 Scale: 1"=100'



YATES PETROLEUM CORPORATION
Martha AIK Federal #11
2310' FNL and 990' FEL SHL
2310' FNL and 1650' FWL BHL
Section 11, Township 22S Range 31E
Eddy County, New Mexico Exhibit D

YATES PETROLEUM CORPORATION
Martha AIK Federal #11
2310' FNL and 990' FEL, Surface Hole
2310' FNL & 1650' FWL, Bottom Hole
Section 11-T22S-R32E 31E
Eddy County, New Mexico

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

Rustler	755'	Livingston Ridge	7330' Oil
Top of Salt	1000'	Brushy Canyon	7645' Oil
Base of Salt	3958'	Bone Springs	9016' Oil
Bell Canyon	4552'	TMD TVD	8600' 8410
Cherry Canyon	5511' Oil	TMD	9359'

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

Water: 47' +/-

Oil or Gas: Oil Zones: 5511', 7330', 7645', and ~~9016'~~

3. Pressure Control Equipment: BOPE's will be installed on both the 13 3/8" and 8 5/8" casing and rated for 3000# BOP 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.
4. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment, and a sub with full 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

	Hole Size	Casing Size	Wt./Ft	Grade	Coupling	Interval	Length
	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 LOA	11"	8 5/8"	32#	J-55	ST&C	2200-4050'	1850'
	7 7/8"	5.5"	17#	L-80	LT&C	0'-3400'	3400'
	7 7/8"	5.5"	17#	J-55	LT&C	3400- 9359' ^{9152'}	5959' ^{5752'}

This well will be drilled vertically to approximately 4300'. At 4300' well will be kicked off and directionally drilled at 12 degrees per 100' with a 7 7/8" hole to ~~9359'~~ MD (~~8600'~~ TVD) where 5 1/2" casing will be set and cemented. This well will be orthodox at 2310' FNL & 2310' FWL. TVD at this point will be 7550' TVD.

8410 - new operator RGH 11/17/09

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

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 is at surface.

Surface Casing: 450 sacks 'C' Lite (WT 12.6 YLD 1.99). Tail in with 225 sacks 'C' (WT 14.8 YLD 1.32)

Intermediate Casing: 900 sacks of Hal LtPr+'C' (WT 12.6 YLD 1.99). Tail in with 225 sacks 'C' (WT 14.8 YLD 1.32.). TOC surface.

Production Casing:

Stage One: 500 sacks PecoVILt (WT 13. YLD 1.41). TOC 7400'.

Stage Two: 275 sacks Lite Crete (WT 9.9 YLD 3.19). Tail in with 100 sacks PecosVILt (WT 13.00 YLD 1.40). DV tool at 7400' TVD TOC 4500'.

Stage Three: 450 sacks Lite Crete (WT 9.9 YLD 3.19) Tail in with 100 sacks PecosVILt (WT 13. YLD 1.40). DV Tool at 4500'. TOC surface.

6. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-850	FW/Gel	8.60-9.20	32-34	N/C
850-4050	Brine Water	10-10.2	28	N/C
4050-7355	Cut Brine	8.7-9.1	28	N/C
7355-9359	Cut Brine	8.7-9.1	28	<10-15 cc

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:

See COA — Samples: Every 10' from intermediate casing to TD
 Logging: Platform Express; CMR
 Coring: None anticipated
 DST's: None Anticipated
 Mudlogging: Yes

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

Maximum Anticipated BHP:

0'-850' 400 PSI

850'-4050' 2150 PSI

4050'-~~8600'~~ 4070 PSI

8410'

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.

M.D.	Inclination	Azimuth	T.V.D.	N+S	E+W	D.L.S	ToolFace	T.F. Ref. [HS/GN]	
0	0	0	0	0	0	0			
755	0	0	755	0	0	0			RUSTLER
1000	0	0	1000	0	0	0			TOS
3958	0	0	3958	0	0	0	0		BOS
4050	4	270	4050	0	0	0	0		INTERM. CASING PT.
4300	0	0	4300	0	0	12	270	GN	KOP
4325	3	270	4324.99	0	-0.65	12	0	HS	
4350	6	270	4349.91	0	-2.62	12	0	HS	
4375	9	270	4374.69	0	-5.88	12	0	HS	
4400	12	270	4399.27	0	-10.43	12	0	HS	
4425	15	270	4423.58	0	-16.27	12	0	HS	
4450	18	270	4447.54	0	-23.37	12	0	HS	
4475	21	270	4471.11	0	-31.71	12	0	HS	
4500	24	270	4494.2	0	-41.28	12	0	HS	
4525	27	270	4516.77	0	-52.04	12	0	HS	
4550	30	270	4538.73	0	-63.97	12	0	HS	
4552	30.24	270	4540.46	0	-64.97	12	0	HS	BELL CANYON
4570.63	32.48	270	4556.37	0	-74.66	12	0	HS	
5511.37	32.48	270	5350	0	-505.12	12	0	HS	CHERRY CANYON
7330.9	32.48	270	6885	0	-1482.09	12	0	HS	LIVINGSTON RIDGE
7645.03	32.48	270	7150	0	-1650.75	12	0	HS	BRUSHY CANYON
8119.17	32.48	270	7550	0	-1980	0			
8119.17	32.48	270	7550	0	-1980	2	180	HS	
8125	32.36	270	7554.92	0	-1983.13	2	180	HS	
8130.04	32.26	270	7559.19	0	-1985.82	0			
9015.99	32.26	270	8310	0	-2457.28	0			BONE SPRINGS
9359.37	32.26	270	8600	0	-2640	0			TD

9152.23

8410

9152

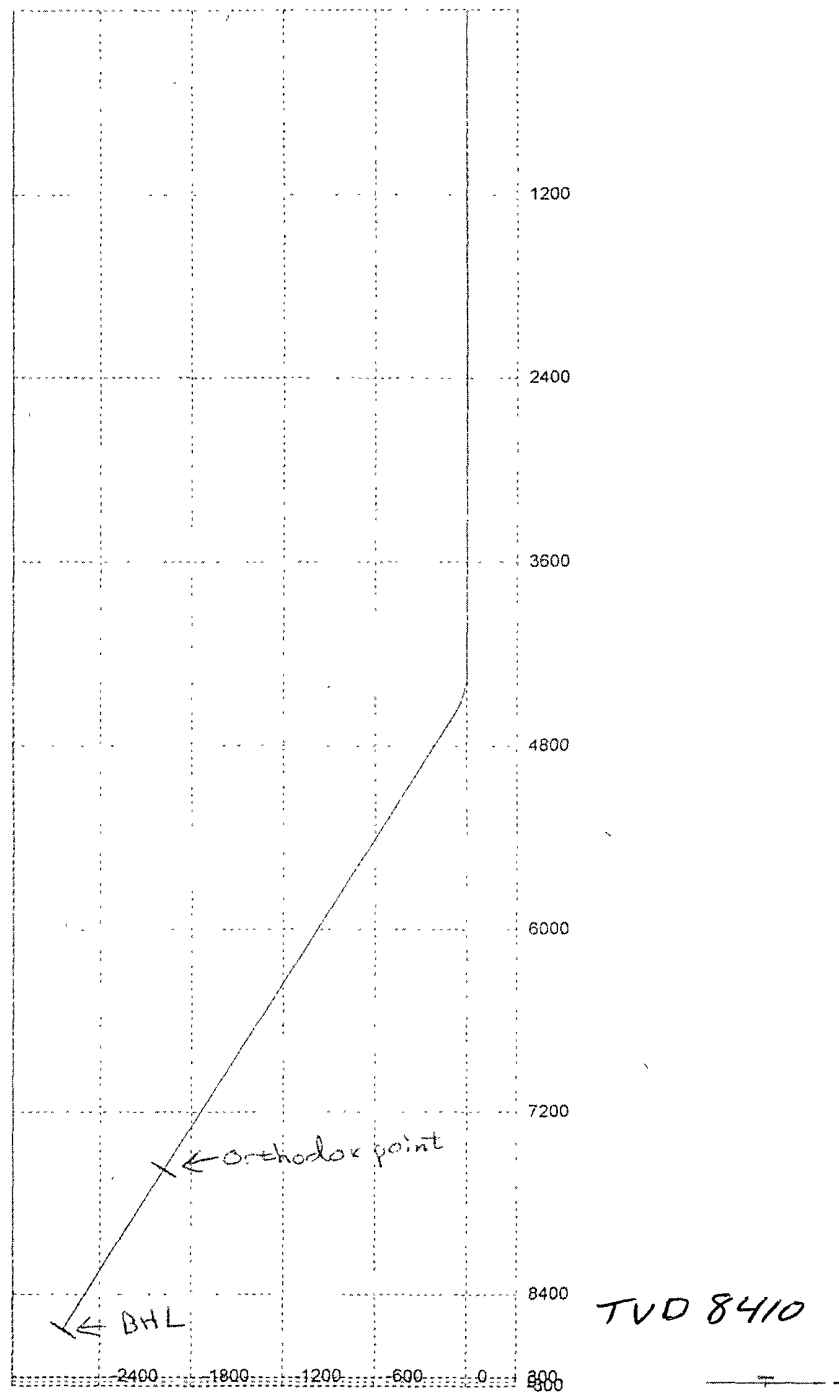
Well will be drilled vertically to approx. 4300'. At 4300' well will be kicked off and directionally drilled at 12 degrees per 100' with a 7 7/8" hole to 9,359' MD (8,600' TVD) where 5 1/2" casing will be set and cemented. This well will be orthodox at 2310' FNL & 2310' FWL (TVD at this point will be 7550').

8410

- per Armando Lopez
11/12/09 - conversation w/ Don Peterson

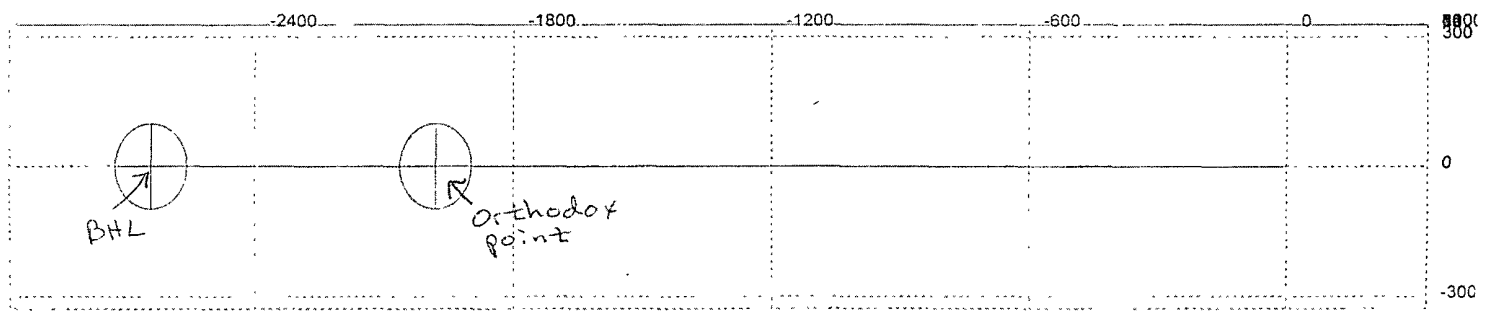
3D³ Directional Drilling Planner - 3D View

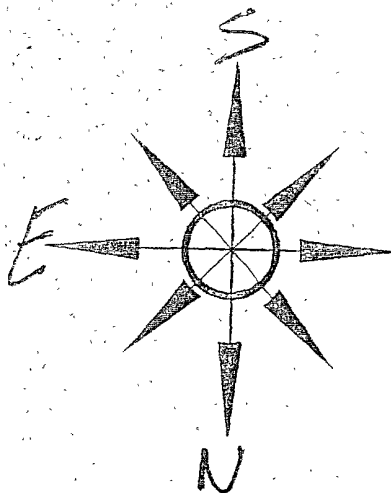
Company: Yates Petroleum Corporation
Well: Martha AIK Federal #11



3D³ Directional Drilling Planner - 3D View

Company: Yates Petroleum Corporation
Well: Martha AIK Federal #11

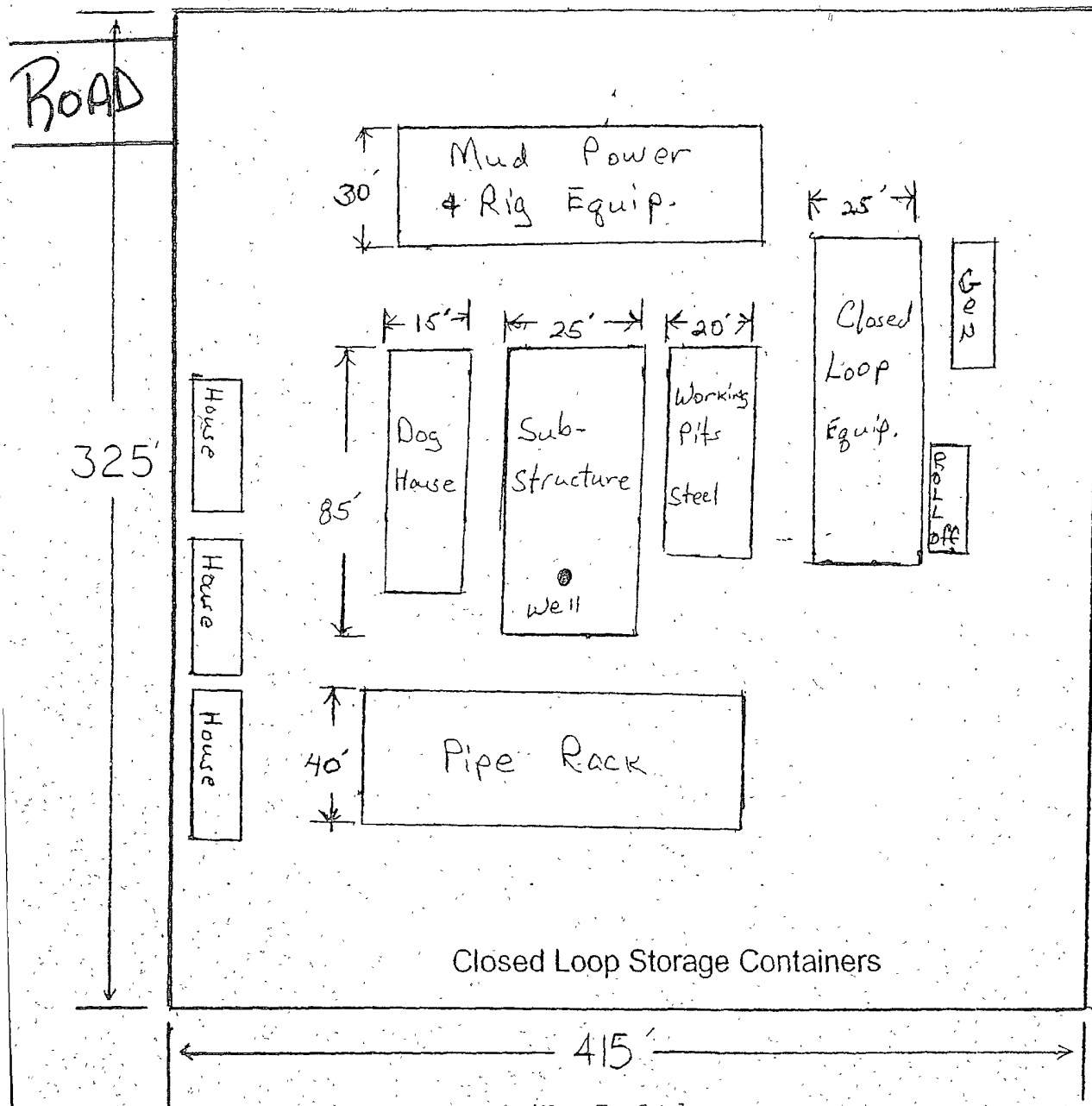




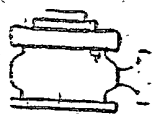
Yates Petroleum Corporation
Location Layout for Permian Basin

YATES PETROLEUM CORPORATION
Martha AIK Federal #11
2310' FNL and 990' FEL SHL
2310' FNL and 1650' FWL BHL
Section 11, Township 22S Range 31East
Eddy County, New Mexico Exhibit B

Closed Loop Design Plan



*Not To Scale

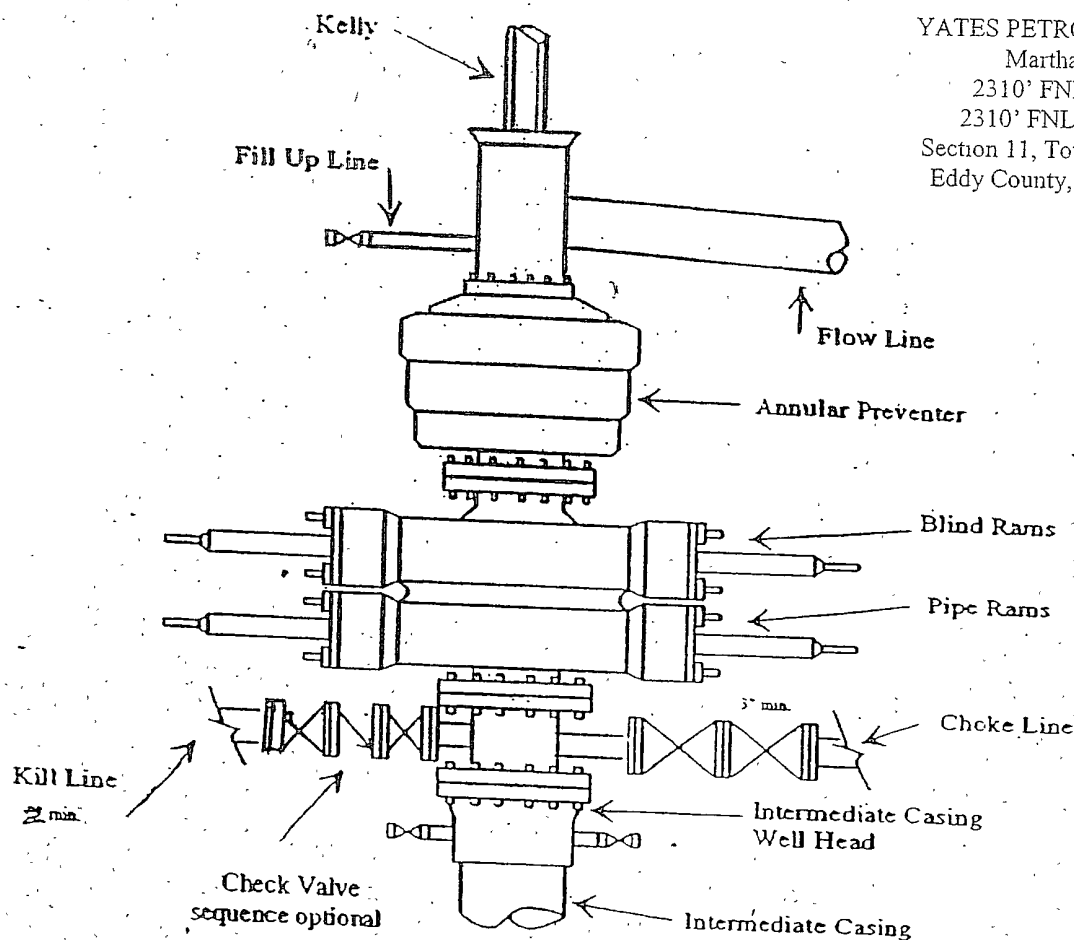


Yates Petroleum Corporation

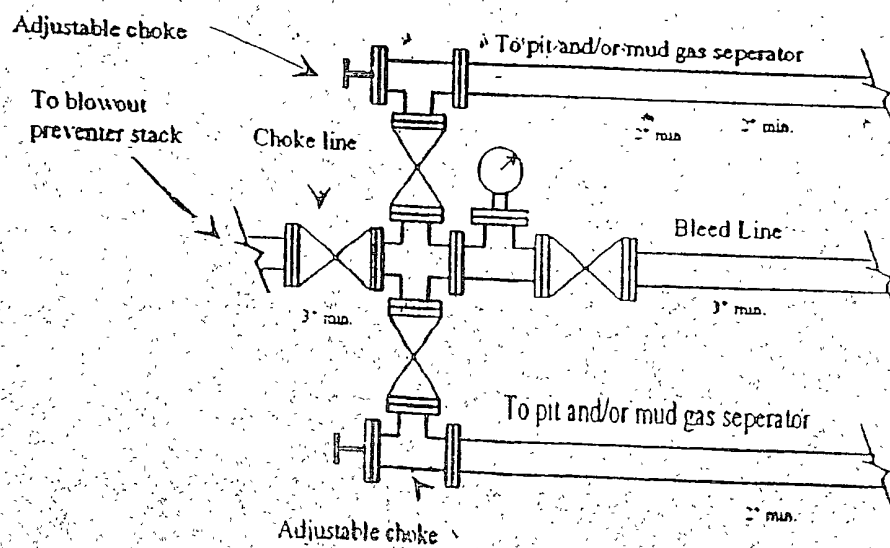
BOP-3

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

YATES PETROLEUM CORPORATION
Martha AIK Federal #11
2310' FNL and 990' FEL SHL
2310' FNL and 1650' FWL BHL
Section 11, Township 22S Range 31East
Eddy County, New Mexico Exhibit C



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



Yates Petroleum Corporation

**105 S. Fourth Street
Artesia, NM 88210**

Hydrogen Sulfide (H₂S) Contingency Plan

For

Martha AIK Federal #11

2310' FNL, 990' FEL, Surface Hole

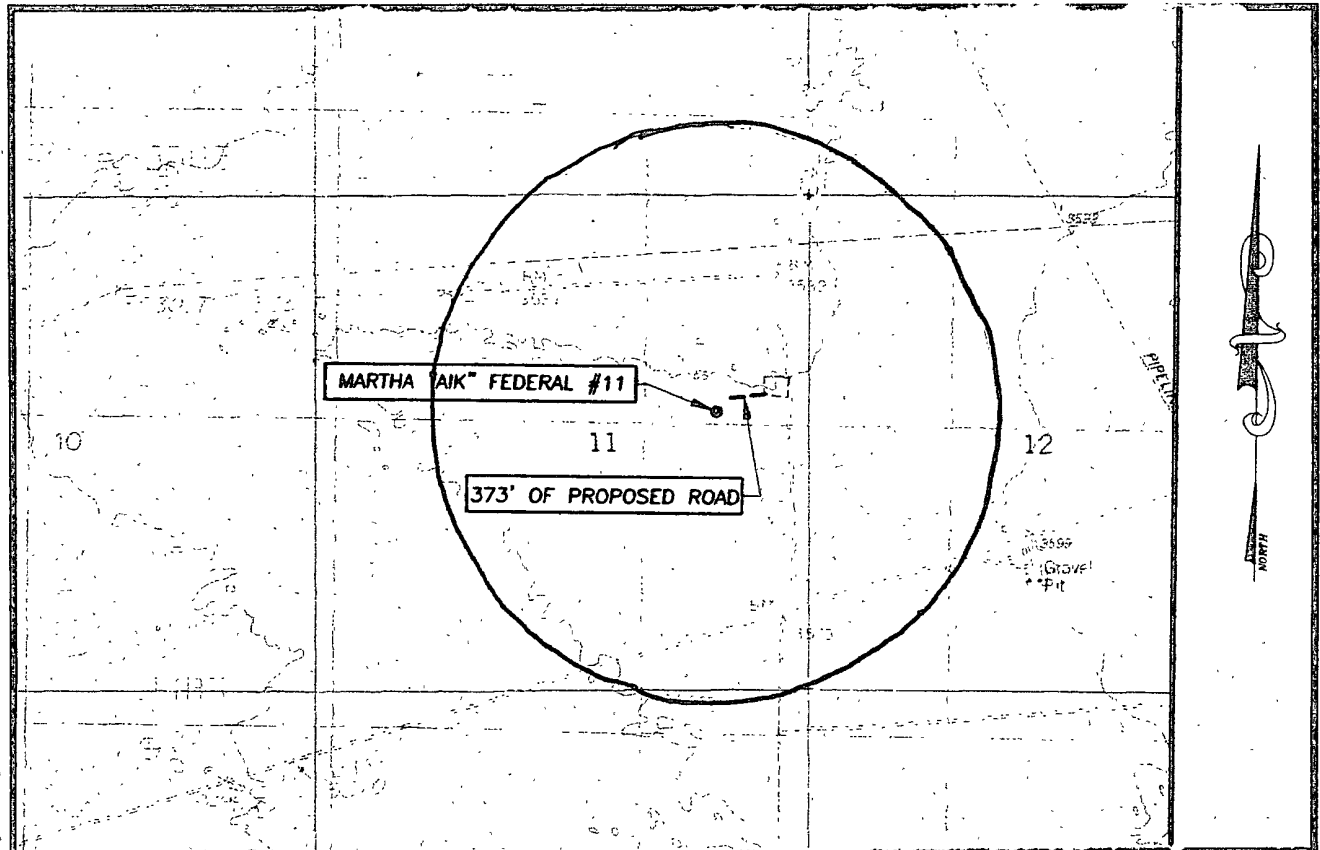
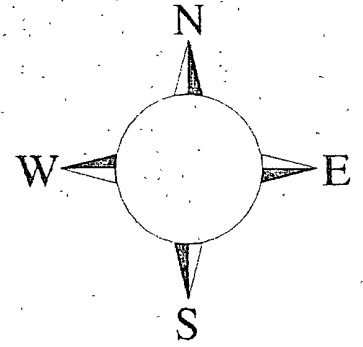
2310' FNL, 1650' FWL, Bottom Hole

Section 11, T-22S, R-31E

Eddy County NM

Martha AIK Federal #11 Location

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Assumed 100 ppm ROE = 3000'
100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the case of a release of gas containing H₂S, the first responder(s) must isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

All responders must have training in the detection of H₂S, measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H₂S monitors and air packs in order to control the release. Use the "buddy system" to ensure no injuries during the response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

YPC personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. YPC Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Yates Petroleum Corporation Phone Numbers

YPC Office	(575) 748-1471
Paul Ragsdale/Operations Manager	(575) 748-4520
Ron Beasley/Production Manager	(575) 748-4210
Wade Bennett/Prod Superintendent	(575) 748-4236
Mike Lankin/Drilling	(575) 748-4222
Paul Hanes/Prod. Foreman/Roswell	(575) 624-2805
Tim Bussell/Drilling Superintendent	(575) 748-4221
Artesia Answering Service	(575) 748-4302
(During non-office hours)	

Agency Call List

Eddy County (505)

Artesia

State Police	746-2703
City Police.....	746-2703
Sheriff's Office	746-9888
Ambulance	911
Fire Department	746-2701
LEPC (Local Emergency Planning Committee)	746-2122
NMOCD.....	748-1283

Carlsbad

State Police	885-3137
City Police.....	885-2111
Sheriff's Office	887-7551
Ambulance	911
Fire Department	885-2111
LEPC (Local Emergency Planning Committee).....	887-3798
US Bureau of Land Management.....	887-6544

New Mexico Emergency Response Commission (Santa Fe)	(505) 476-9600
24 HR	(505) 827-9126
New Mexico State Emergency Operations Center.....	(505) 476-9635
National Emergency Response Center (Washington, DC)	(800) 424-8802

Other

Boots & Coots IWC	1-800-256-9688 or (281) 931-8884
Cudd Pressure Control.....	(915) 699-0139 or (915) 563-3356
Halliburton	(505) 746-2757
B. J. Services.....	(505) 746-3569
Flight For Life -4000 24th St, Lubbock, TX	(806) 743-9911
Aerocare -Rr 3 Box 49f, Lubbock, TX	(806) 747-8923

Med Flight Air Amb 2301 Yale Blvd SE #D3, Albuquerque, NM(505) 842-4433
S B Air Med Svc 2505 Clark Carr Loop SE, Albuquerque, NM(505) 842-4949

MULTI-POINT SURFACE USE AND OPERATIONS PLAN
YATES PETROLEUM CORPORATION
Martha AIK Federal #11
2310' FNL & 990' FEL, Surface Hole
2310' FNL & 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 41 miles east of Carlsbad, 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 1.0 mile. Turn left (south) and go south approximately 1.5 miles to the Martha AIK Federal #5 well pad. The new road will start here going from the southwest corner of the pad going west about 400' to the southeast corner of the proposed Martha AIK Federal #11 well pad.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 0.1 of a mile 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 turnouts 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 and reserve pits will not be.
- 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 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.
- B. The closed loop system will be installed, maintained and closed per the NMOCD Pit Rule.
- 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 will be filled level after they have evaporated and dried. Pit reclamation will meet 19.15.17 requirements.

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 #11

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 9th day of September 2008

Printed Name Cy Cowan

Signature 

Position Title Regulatory Agent

Address 105 South Fourth Street, Artesia, NM 88210

Telephone 575-748-4372

E-mail (optional) cyc@ypcnm.com

Field Representative (if not above signatory) Tim Bussell

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.:	NM65417
WELL NAME & NO.:	Martha AIK federal # 11
SURFACE HOLE FOOTAGE:	2310' FNL & 990' FEL
BOTTOM HOLE FOOTAGE:	2310' FNL & 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
- ☐ Permit Expiration
- ☐ Archaeology, Paleontology, and Historical Sites
- ☐ Noxious Weeds
- ☒ Special Requirements
 - Lesser Prairie Chicken
 - Ground Level Abandoned Well Marker
- ☒ Construction
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☒ Road Section Diagram
- ☒ Drilling
 - WIPP Requirements
 - R-111-P potash
 - Logging requirements
- ☐ Production (Post Drilling)
 - Well Structures & Facilities
 - Pipelines
 - Electric Lines
- ☒ Closed Loop System/Interim Reclamation
- ☐ Final Abandonment/Reclamation

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 Timing 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 well 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. Notify the Carlsbad 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 are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. 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, erodes, 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

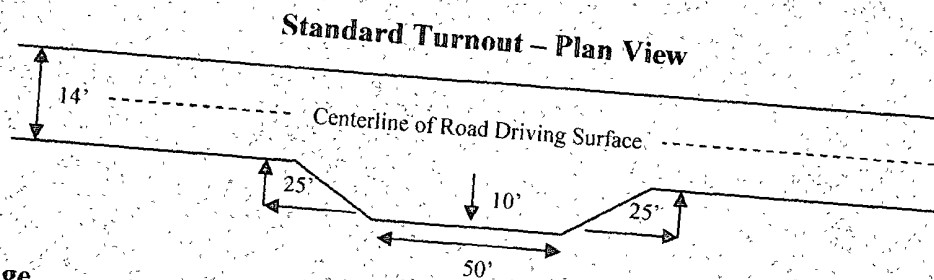
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

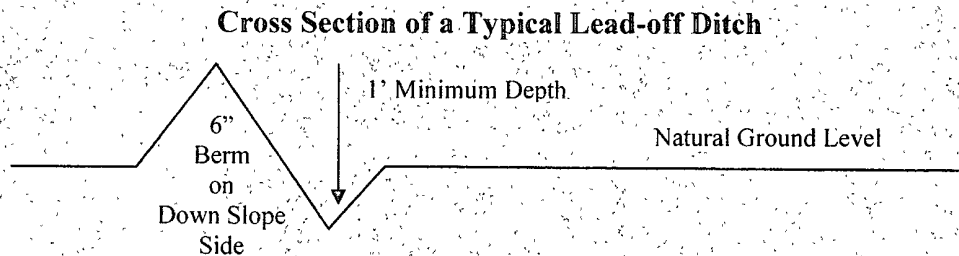
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:



Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslping and inslping, 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:

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

Culvert Installations

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 road 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

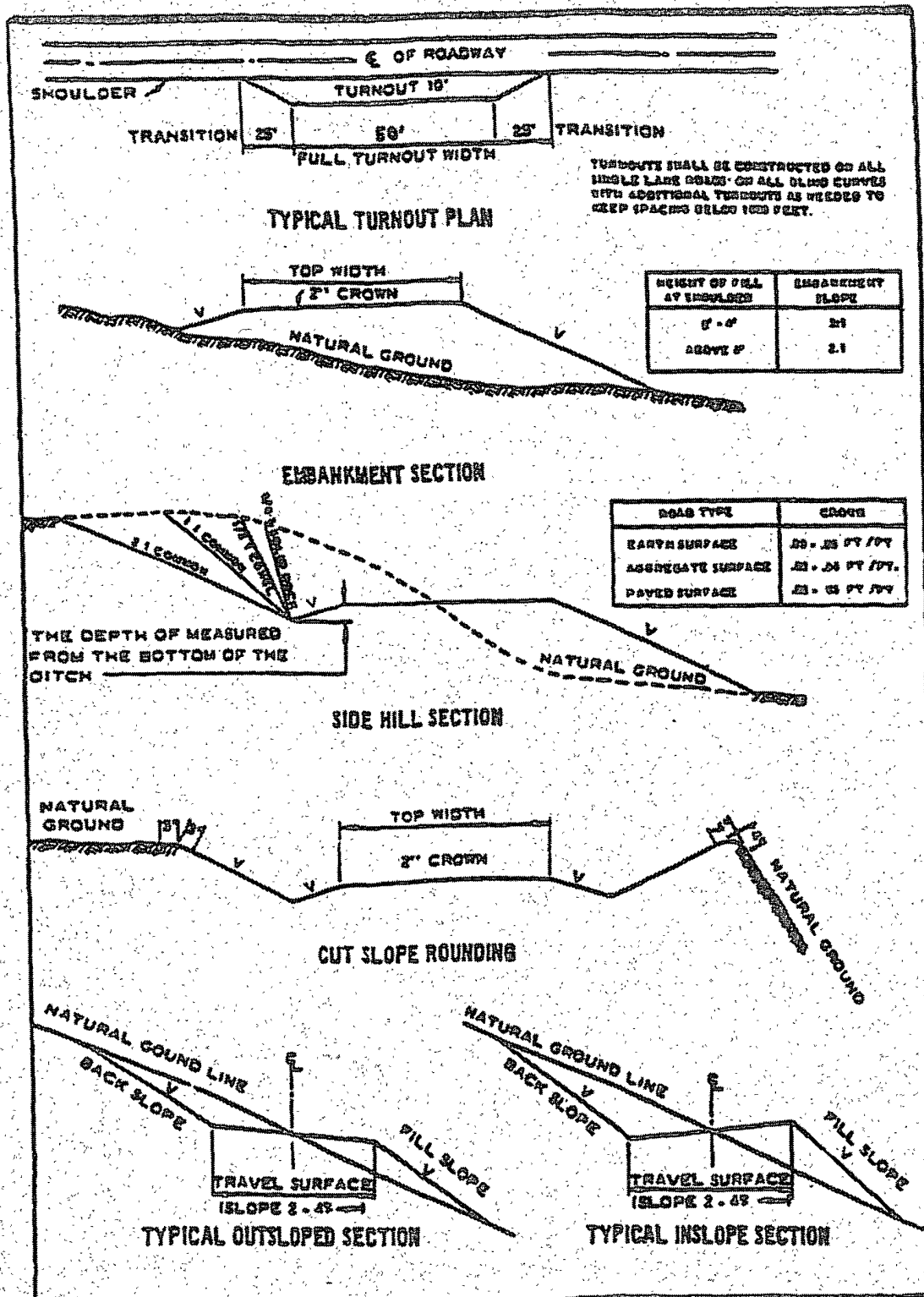
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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

A. DRILLING 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 strings
- c. BOPE 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 casing has been run and cemented or the well has been properly plugged, the drilling rig 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 cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing 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 potash.

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 casing 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 feet 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 cement 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 8-5/8 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 cement (WOC) time for a primary cement job is to include the lead cement slurry due to R-111-P potash.**

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - a. First 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 above DV tool, cement 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. If 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 Onshore 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 BLM 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/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WIPP Requirements

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 Powers 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 susan.mccauslin@wipp.ws or fax to her attention at 575-234-6003.

RGH 111809

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation 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 housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

B. PIPELINES

C. ELECTRIC LINES

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall 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 interim 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 #:
COMPANY REFERENCE:
WELL # & NAME:

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed 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 prior 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 doubled. 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:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	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 abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions 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 mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.