

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. SF 079010
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator DEVON ENERGY CORP.		7. If Unit or CA Agreement, Name and No.
Contact: CHARLES MUZZY E-Mail: charles.muzzy@devn.com		8. Lease Name and Well No. NEBU 329
3a. Address 20 NORTH BOARDWAY OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405.552.7955 Fx: 405.552.4553	9. API Well No. 30045 32248
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SENE Lot H 4445 FNL 1110 FEL At proposed prod. zone SENE Lot H 4445 FNL 1110 FEL		10. Field and Pool, or Exploratory BLANCO MESAVERDE/BASIN DAKO
14. Distance in miles and direction from nearest town or post office* 24 MILES SOUTHEAST OF IGNACIO CO.		11. Sec., T., R., M., or Blk. and Survey or Area Sec 24 T31N R7W Mer NMP
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in Lease 2040.00	12. County or Parish SAN JUAN
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 8150 MD 8150 TVD	13. State NM
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6450 GL 6460	22. Approximate date work will start 09/15/2004	17. Spacing Unit dedicated to this well 320.00 E/2 OK 160 NE OK
20. BLM/BIA Bond No. on file		23. Estimated duration 20 DAYS

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 shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an 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 authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) CHARLES MUZZY	Date 03/25/2004
Title SR. STAFF OPERATIONS TECH		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed)	Date 6-7-04
Title AFN	Office FFO	

Application approval does not warrant or certify 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.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 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.

Additional Operator Remarks (see next page)

Electronic Submission #28928 verified by the BLM Well Information System  
For DEVON ENERGY CORP., sent to the Farmington

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".

HOLD G104 FOR directional survey

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

NMOCD

District I:  
PO Box 1980, Hobbs NM 88241-1980  
District II  
PO Drawer KK, Artesia, NM 87211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

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

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-32248		2 Pool Code 80690-71599		3 Pool Name Siopinos Pictured Cliffs - Basin Dakota	
4 Property Code 19641		5 Property Name NEBU		6 Well Number # 329	
7 OORID No. 6137		8 Operator Name Devon Energy Production Company, L.P.		9 Elevation 6460	

10 Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	31 N	7 W		1145	NORTH	1055	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	31 N	7 W		750	NORTH	1055	EAST	SAN JUAN

12 Dedicated Acres 16.8 AC 320 OK	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature: <i>Charles Muzzey</i> Printed Name: Charles Muzzey Title: Sr. Ops Tech Date: 5-18-04
	<b>18 SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date of Survey: April 15, 2004 Signature and Seal of Professional Surveyor: <i>GARY L. HARRIS</i> 7016 Certificate Number

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMSF079010
2. Name of Operator DEVON ENERGY PRODUCTION CO LP		6. If Indian, Allottee or Tribe Name
Contact: CHARLES MUZZY E-Mail: charles.muzzy@dvn.com		7. If Unit or CA/Agreement, Name and/or No. NMNM78402A
3a. Address 20 NORTH BROADWAY SUITE 1500 OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405.552.7955 Fx: 405.552.4553	8. Well Name and No. NEBU 329
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 24 T31N R7W SENE Lot H 1415FNL 1110FEL		9. API Well No. 30-045-32248-00-X1
		10. Field and Pool, or Exploratory BASIN DAKOTA BLM PICTURED CLIFFS
		11. County or Parish, and State SAN JUAN COUNTY, NM

**12. CHECK 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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompleate 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Devon needs to relocate the location of this well. It will now be a directional well. Please find pertinent documentation attached to this notice.



14. Thereby certify that the foregoing is true and correct.	
Electronic Submission #30844 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO LP, sent to the Farmington Committed to AFMSS for processing by ADRIENNE GARCIA on 05/20/2004 (04AXG2461SE)	
Name (Printed/Typed) CHARLES MUZZY	Title SR. OPERATIONS TECH
Signature (Electronic Submission)	Date 05/18/2004

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

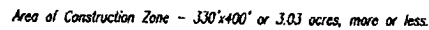
Approved By <i>[Signature]</i>	Title AFM	Date 6-7-04
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office FFO	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 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.


**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

NMOC


Lat: 36°53'21"  
Long: 107°31'01"




SCALE: 1"=60'-HORIZ.  
1"=40'-VERT.

A-A'		CL					
6470							
6460							
6450							
6440							

B-B'							
6470							
6460							
6450							
6440							

C-C'							
6470							
6460							
6450							
6440							

**NOTE:** Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction.

Cuts and fills shown are approximate - final finished elevation is to be adjusted so earthwork will balance. Corner stakes are approximate and do not include additional areas needed for sidewalks and drainages. Final Pad Dimensions are to be verified by Contractor.

VANN SURVEYS  
P. O. Box 1306  
Farmington, NM

Morrison	8120	8145	
TD	8150	8175	

\*All shows of fresh water and minerals will be adequately protected and reported.

## **2. PRESSURE CONTROL EQUIPMENT:**

All well control equipment shall be in accordance with Onshore Order #2 for 2M systems.

The minimum specifications for pressure control equipment that will be provided are included on the attached schematic diagram, which shows the size, and pressure ratings.

- 2000# BOP With Pipe Rams and 2000# BOP With Blind Rams
- Auxiliary equipment to be used:
- Upper kelly cock with handle available.

The manifold includes appropriate valves and adjustable chokes. The kill line will have one check valve. Ram type preventers will be pressure tested to full working pressure (utilizing a test plug) or 70% of the internal yield pressure (without a test plug) at:

- Initial installation
- Whenever any seal subject to test pressure is broken
- Following related repairs
- At 30 day intervals

Pipe and blind rams shall be activated each trip.

A BOPE pit level drill will be conducted weekly for each drilling crew.  
All tests and drills will be recorded in the drilling log.

The accumulator will have sufficient capacity to close all rams and retain 200 psi above pre-charge pressure without the use of closing unit pumps.

Master controls will be at the accumulator. Anticipated bottom hole pressure is 3400 psi.

## **3. CASING & CEMENTING PROGRAM:**

A. The proposed casing program will be as follows:

TVD	TMD	Hole Size	Size	Grade	Weight	Thread	Condition
0-285	0-285	12-1/4"	9-5/8"	H-40	32#	STC	New
0-3629	0-3653	8-3/4"	7"	K-55	23#	LTC	New
0- TD	0- TD	6-1/4"	4-1/2"	J-55	11.6 #	LTC	New

The 9-5/8" surface pipe will be tested to 750 psi. All casing strings below the surface shoe shall be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% minimum internal yield.

**Surface:** The bottom three joints of the surface casing will have a minimum of one centralizer per joint and one centralizer every joint thereafter (Total 5 centralizers estimated)

**Intermediate:** The bottom three joints of the 7" casing will have a minimum of one centralizer per joint and one centralizer every fifth joint thereafter to above Ojo Alamo with turbolizers below and throughout the Ojo Alamo. (Total 12 centralizers, 3 turbolizers estimated).

**Production:** The bottom three joints will have a minimum of one centralizer per joint and one centralizer every fifth joint to 3400' (estimated 25 centralizers used). Centralizers will be open bow spring or basket bow spring type.

B. The proposed cementing program will be as follows:

**Surface String:** Cement will be circulated to surface.

**Lead:** 200 sks Class "B" with 100% Standard Cement, 2.00% CaCl<sub>2</sub>, .25 #/sk Flocele. Density: 15.6 lb/gal; Yield: 1.18 cuft/sk; Water: 5.24 gal/sk \*

\* **Minor variations possible due to existing conditions**

**Intermediate String:** Cement will be circulated to surface.

**Lead:** 575 sks 50/50 Poz with 50% Class B Cement, 50% San Juan Poz, .4% Halad-344, .1% CFR-3, 3% Bentonite, 5#/sk Gilsonite, .25#/sk Flocele. Density: 13.0 lb/gal; Yield: 1.46 cuft/sk; Water: 6.42 gal/sk \*

**Tail:** 75 sks 50/50 Poz with 94#/sk Standard Cement, 0.3% Halad-344, .25 #/sk Flocele. Density: 15.6 lb/gal; Yield: 1.18 cuft/sk; Water: 5.23 gal/sk \*

If hole conditions dictate, an alternate, two stage cement design Will be used:

**Stage 1:** 85 sacks Class B 50/50 POZ, 3% gel, 5# Gilsonite, 1/4# Flocele, 1/10% CFR 3, .2% Halad 344, Yield 1.47 ft<sup>3</sup>/sks. \*

**Stage 2:** 450 sacks Class B 50/50 POZ, 3% gel, 5# Gilsonite, 1/4# Flocele, .1% CFR 3, .2% Halad 344, Yield 1.47 ft<sup>3</sup>/sks. \*

\* **Minor variations possible due to existing conditions**

**Production String:** TOC designed to circulate 1000' into intermediate string, cement will tie into the intermediate casing as a minimum. Volumes may vary with actual well characteristics.

**Lead:** 450 sks 50/50 Poz with 50% Standard Cement, 50% San Juan POZ, 3% Bentonite, 1.40% Halad-9, .10% CFR-3, .10% HR-5, 5 #/sk Gilsonite, 0.25 #/sk Flocele. Density: 13.0 lb/gal; Yield: 1.47 cuft/sk; Water: 6.35 gal/sk \*

\* **Minor variations possible due to existing conditions**

Actual volumes will be calculated and adjusted with caliper log prior to cementing.

If hole conditions dictate, an alternate, two stage cement design will be used.

**Stage 1:** 325 sxs 50/50 POZ, 3% gel, .9% Halad 9, .2% CFR 3, %# Gilsonite & ¼# Flocele. Yield 1.47 13#. \*

**Stage 2:** Lead: 450 sx 50/50 POZ, 3% Gel, .9% Halad 9, .2% CFR 3, 5# Gilsonite & ¼# Flocele. Yield 1.47 13 ppg. \*

**Tail:** 25 sx (5 bbls) Class B .4% Halad 9. Yield 1.18 15.6#. \*

**\* Minor variations possible due to existing conditions**

#### 4. DRILLING FLUIDS PROGRAM:

Interval	Interval	Type	Weight (ppg)	Viscosity	pH	Water Loss	Remarks
0-3629	0-3654	Spud-foam	8.4-9.0	29-70	8.0	NC	FW gel, LSND or stiff foam
3629-7890	3654-7915	Air				NC	
7890 - TD	7915 - TD	Air/N2 or Mud	8.5-9.0*	30-50	8.0-10.0	8-810cc @ TD	Low solids-non-dispersed. * min Wt. to control formation pressure

NC = no control

Sufficient quantities of mud material will be maintained on site or be readily accessible for the purpose of assuring well control. SPR will be recorded on daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

#### 5. EVALUATION PROGRAM:

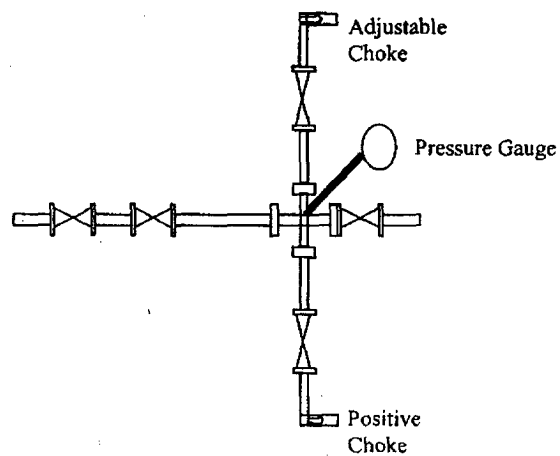
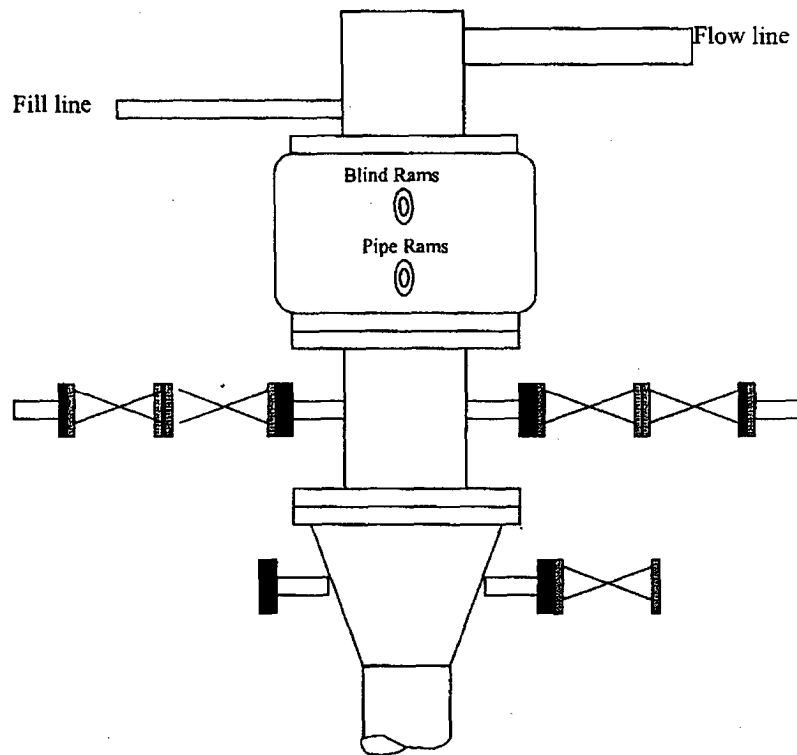
**Logs:** Density  
Neutron  
Induction

In the event open hole logs are not run in the well, a cased hole evaluation log will Be run from

**Survey:** ~~Deviation surveys will be taken every 500' of the 8 ¾" hole, or first succeeding bit change.~~ The hole will be air drilled from intermediate TD – well TD. The equipment used in this type of operation will not allow for single shot suveys without considerable operational delays. A survey will be taken at TD. Similar wells in this area have not shown significant deviation in this section of the hole.

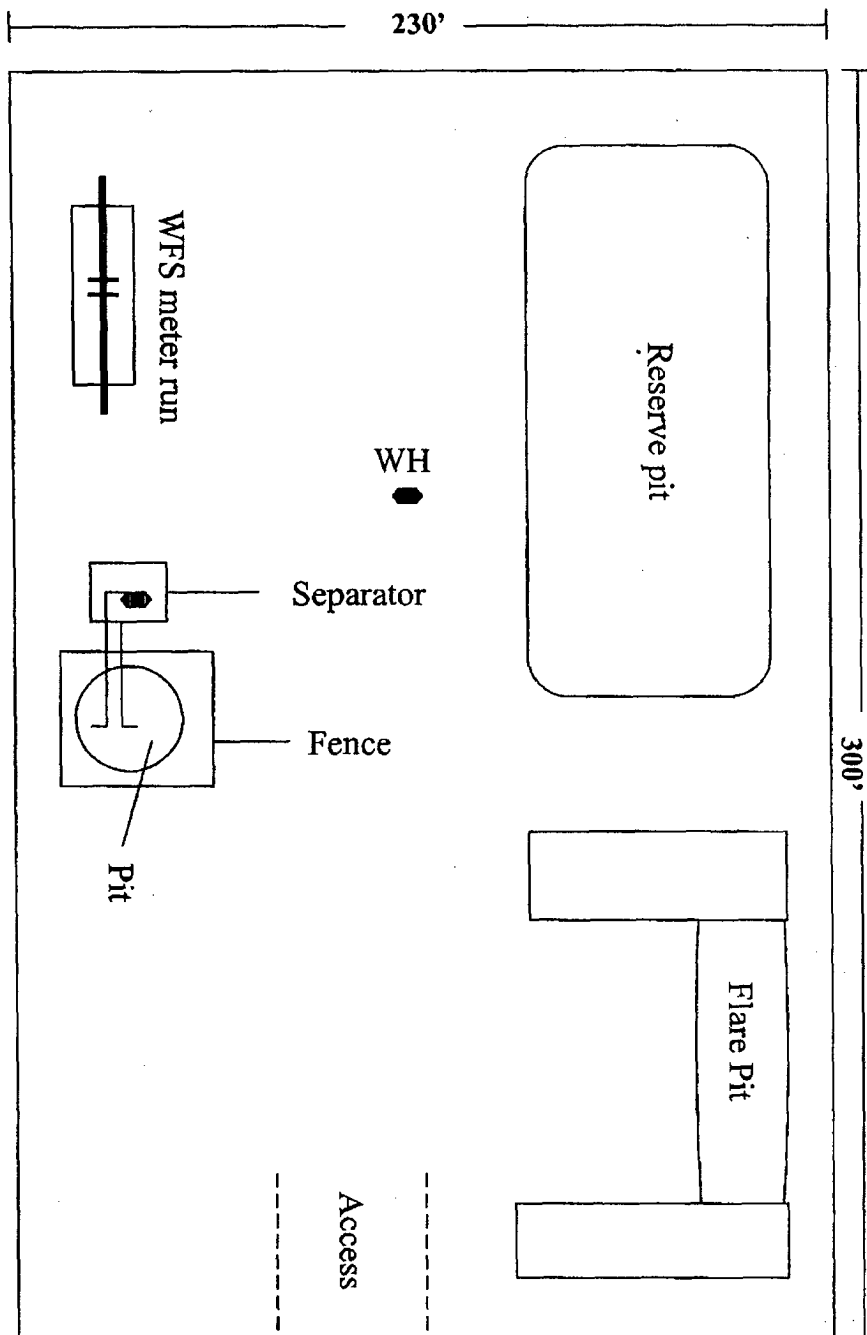
**Cores:** None anticipated.

**NEBU 329**  
**Well Control Equipment**  
**2,000 psi Configuration**



All well control equipment designed to meet or exceed the Onshore Oil and Gas Order No. 2, BLM 43 CFR 3160 requirements for 2M systems.





All locations will have a gas separator, and an 80 bbl pit (double wall, double bottom) enclosed with a fence. It is WFS responsibility to install the meter run. It could be on either end of pad, but will always be on working side of the pad.