# RECEIVED

MAR 1 8 2008

DIST. 3

Form 3160 - 3 (April 2004)

management

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

UNITED STATES	Bureau of Land W NTERIOR Farmington Fig.	eld Office	5. Lease Serial No.			
BUREAU OF LAND MAN	AGEMENT		SF 079042			
APPLICATION FOR PERMIT TO			6. If Indian, Allotee or Tribe Name			
la. Type of work	D		7. If Unit or CA Agreeme	nt, Name and No.		
ia. Type of work	Northeast Blanco					
lb. Type of Well: Oil Well Gas Well Other	8. Lease Name and Well NEBU 353	No.				
2 Name of Operator	Single Zone Multip	ple Zone	9. APL Well No.			
Devon Energy Production Company, L	P.		30-04	S-3464		
3a. Address 20 N. Broadway	3b. Phone No. (mclude area code)		10. Field and Pool, or Expl	oratory		
Oklahoma City, OK 73102	405-552-7917		Basin Dakota			
4. Location of Well (Report location clearly and in accordance with an	• •		11. Sec., T. R M. or Blk a	nd Survey or Area		
At surface 970' FNL & 1,965' FWL, Unit C, N	E NW		Sec. 5, T-30N, R-7	w		
At proposed prod. zone 1,850' FNL & 1,710' FWL, Unit F,	SE NW					
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State		
Approximately 16.1 miles	I		San Juan	NM		
15 Distance from proposed* location to nearest	16. No of acres in lease	17 Spacing	cing Unit dedicated to this well			
(Also to nearest drig unit line, if any)	(Also to heatest diff till line, it diff)					
18. Distance from proposed location* to nearest well, drilling, completed,	19 Proposed Depth	20 BLM/B	IA Bond No. on file			
applied for, on this lease, ft 800'	8,122'	CO 11	04			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will star	rt*	23. Estimated duration			
GR 6,322'	04/11/2008		Unknown			
	24. Attachments					
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be a	ttached to this	s form:			
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>	4 Bond to cover the Item 20 above).	he operation	s unless covered by an exis	sting bond on file (see		
3. A Surface Use Plan (if the location is on National Forest System						
SUPO shall be filed with the appropriate Forest Service Office)	6. Such other site authorized office		rmation and/or plans as ma	y be required by the		
25. Signature (70)	Name (Printed/Typed)		Da	e		
	Melisa Castro			3-13-08		
Title Senior Staff Operations Technician						
Approved by (Sundature)	Name (Printed/Typed)		Da	te /2/20		
Title 7	Office O	jans e	<b>20</b>	7/ //00		
Heting HFM	1-10					
Application approval does of warrant or certify that the applicant hold conduct operations thereon.  Conditions of approval, if any, are attached.	is legal or equitable title to those righ	its in the subj	ect lease which would entit	le the applicant to		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 1t a c	rima for any nargan lenavinale 1 -	willfully to	olto to any department	ronay of the United		
States any false, fictitious or fraudulent statements or representations as	to any matter within its jurisdiction	₩инину ю III	акс ю ану перанинені от аў	sency of the Officer		

\*(Instructions on page 2)

### NOTIFY AZTEC OCD 24 HRS.

PRIOR TO CASING & CEMENTS APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND

This action is subject to technical and procedural review pursuant to 43 CFR 3185 3 and appeal pursuant to 43 CFR 3165 4

Hold C104 for Directional Survey and "As Drilled" plat

OPERATOR FROM OBTAINING ANY OTHER **AUTHORIZATION REQUIRED FOR OPERATIONS** ON FEDERAL AND INDIAN LANDS

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

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 Fc, 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 Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

MAR 1 8 2008

Bureau of Land Management AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

71599	Basen Dakota	
	Ptoperty Name	* 6 Well Number
E <b>BU</b>		353
	* Operator Name	<sup>9</sup> Elevation
evon Energy Produ	ection Company, L.P.	6322
	EBU evon Energy Produ	* Operator Name evon Energy Production Company, L.P.

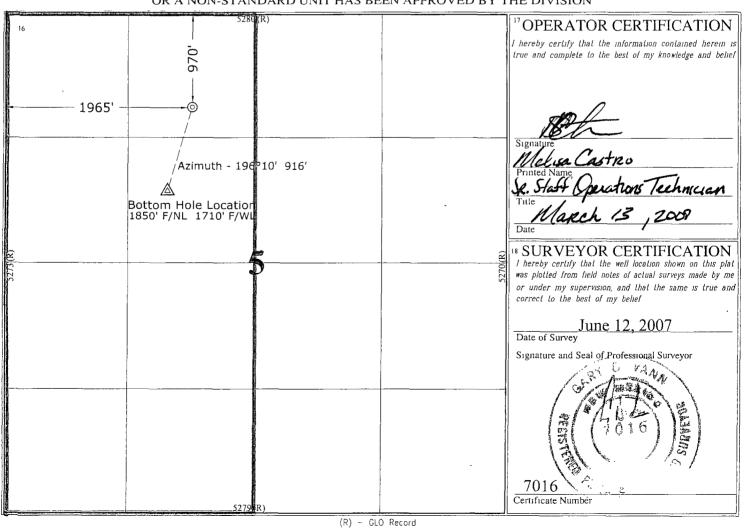
Surface Location

UL or Lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	5	30 N	7 W		970	NORTH	1965	WEST	SAN JUAN

<sup>11</sup> Bottom Hole Location If Different From Surface

<sup>7</sup> UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	5	30 N	7 W		1850	NORTH	1710	WEST	SAN JUAN
"Dedicated Acres /2 - 319.52	13 Join	t or Infill	Consolidatio	n Code	Order No				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



<u>District I</u>
1625 N. French Dr , Hobbs, NM 88240
<u>District II</u>
1301 W. Grand Avenue, Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S St Francis Dr , Santa Fe, NM 87505

#### State of New Mexico **Energy Minerals and Natural Resources**

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe

Form C-144

June 1, 2004

Oil Conservation Division

Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes No

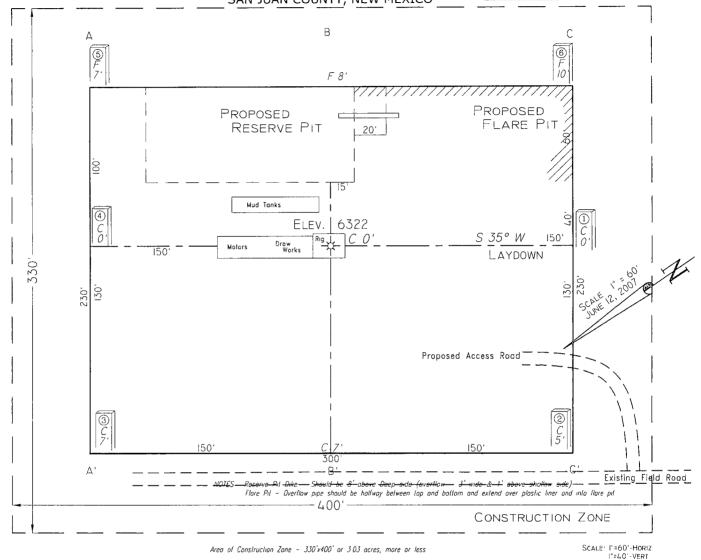
1220 South St. Francis Dr. office Santa Fe, NM 87505

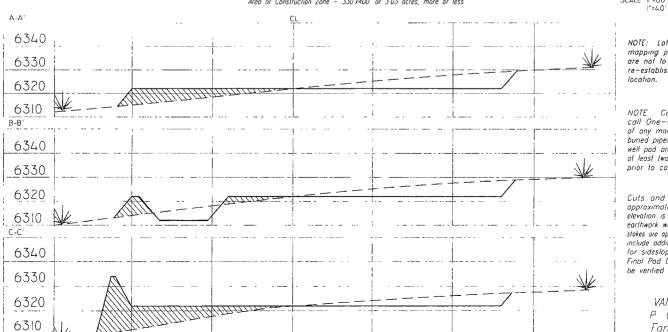
Type of action Registration of a pit of	or below-grade tank 🗵 Closure of a pit or below-gra	ade tank						
Operator Deven Energy Production Company, L.PTelephone	ne:(405) 552-7917e-mail address:n	nelisa castre@dvn com						
Address: _20 N. Broadway, Oklahoma City, OK 73102								
Facility or well name:NEBU 353API # 3	6845.3969 U/L or Qtr/QtrC	Sec5 T30N R7W						
County:San JuanLatitud	e36.84618 Longitude	107.59669 NAD· 1927 🗌 1983 🗍						
Surface Owner Federal ☑ State ☐ Private ☐ Indian ☐								
Pit	Below-grade tank							
Type. Drılling ☑ Production ☐ Disposal ☐	Volumebbl Type of fluid							
Workover ☐ Emergency ☐ Construction material.								
Lined 🖾 Unlined 🗀	Double-walled, with leak detection? Yes   If no	ot, explain why not						
Liner type. Synthetic 🖾 Thickness _12_mil Clay 🔲								
Pit Volumebbl								
	Less than 50 feet	(20 points)						
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points)						
high water elevation of ground water.)	√ 100 feet or more	( 0 points)						
	Yes	(20 points)						
Wellhead protection area: (Less than 200 feet from a private domestic	√ No	( 0 points)						
water source, or less than 1000 feet from all other water sources.)	110	( o points)						
Distance to surface water (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)						
irrigation canals, ditches, and perennial and ephemeral watercourses)	200 feet or more, but less than 1000 feet	(10 points)						
inigation catals, ditches, and perennial and epitemetal watercourses )	√ 1000 feet or more	( 0 points)						
	Ranking Score (Total Points)							
If this is a pit closure: (1) Attach a diagram of the facility showing the pit								
your are burying in place) onsite \( \square\) offsite \( \square\) If offsite, name of facility_								
remediation start date and end date. (4) Groundwater encountered $\cdot$ No $\square$	Yes If yes, show depth below ground surface	ft and attach sample results.						
(5) Attach soil sample results and a diagram of sample locations and excava-	itions.							
Additional Comments								
I hereby certify that the information above is true and complete to the best								
has been/will be constructed or closed according to NMOCD guidelin	es 🖂, a general permit 🗀, or an (attached) afterni	auve OCD-approveu pian						
Date: 3-13-0%								
Printed Name/Title Melisa Castro, Senior Staff Operations Technician	Signature A							
Your certification and NMOCD approval of this application/closure does otherwise endanger public health or the environment. Nor does it relieve regulations								
Approval: Deputy Oil & Gas Inspector Printed Name/Title District#3	Or, _Signature							

### PAD LAYOUT PLAN & PROFILE DEVON ENERGY PRODUCTION COMPANY, L.P.

Nebu # 353 970' F/NL 1965' F/WL SEC. 5, T30N, R7W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

Lat: 36.84618° (83) Long: 107.59669° (83)





NOTE: Lat & Long are for mapping purposes only and are not to be relied on for re-establishment of well location.

NOTE Contractor should call One-Call for location of any marked or unmarked buned pipelines or cobles on well pod ond/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 sidestopes and drainages Final Pad Dimensions are to be verified by Contractor.

VANN SURVEYS P O Box 1306 Farmington, NM

#### **NEBU 353**

SL: 970' FNL & 1,965' FWL, Unit C 5-30N-7W BHL: 1,850' FNL & 1,710' FWL, Unit F 5-30N-7W San Juan Co., NM

#### DRILLING PLAN

### 1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS & ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Formation	TMD (ft)	TVD (ft)	Hydrocarbon/Water Bearing Zones
San Jose	Surface	Surface	
Ojo Alamo	2257	2143	Aquifer
Kirtland	2380	2257	
Fruitland	2913	2756	Gas
Fruitland 1 <sup>st</sup> Coal	3087	2926	Gas
Pictured Cliffs Main	3371	3208	Gas
Lewis	3495	3332	Gas
Intermediate TD	3664	3501	
Huefanito Bentonite	4132	3969	Gas
Chacra / Otera	4511	4348	Gas
Cliff House	5263	5100	Gas
Menefee	5342	5179	Gas
Point Lookout	5623	5460	Gas
Mancos	6008	5845	Gas
Gallup	6980	6817	Gas
Greenhorn	7683	7520	
Graneros	7738	7575	Gas
Paguate	7880	7717	
Cubero	7893	7730	
Oak Canyon	7960	7797	
Encinal Canyon	7975	7812	·

Lower Encinal Canyon	8026	7863	
Burro Canyon	8046	7883	
Morrison	8062	7899	
TD	8122	7959	

<sup>\*</sup>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 #4 for 2M systems.

The minimum specifications for pressure control equipment that will be provided are included on the attached schematic diagram, with a size of 2", 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.
· Safety value & subs to fit all drill string connections in use

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 precharge 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:

TMD	TVD	Hole Size	Size	Grade	Weight	Thread	Condition
0-285'	0-285'	12- 1/4"	9-5/8"	H-40	32#	STC	New
0-3664	0-3501	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
<u> </u>							

Casing Size	Collapse Resistance	Internal Yield	Body Yield
9 5/8"	1400 psi	2270 psi	254K psi
7"	3270 psi	4360 psi	366K psi
4 1/2"	4960 psi	5350 psi	184K psi

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.

<u>Surface</u>: 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)

<u>Intermediate</u>: 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). In some situations an ACP and DV tool may be run.

<u>Production</u>: The bottom three joints will have a minimum of one centralizer per joint and one centralizer every fifth joint to 3500' (estimated 25 centralizers used). Centralizers will be open bow spring or basket bow spring type. In some situations an ACP and DV tool may be run.

#### B. The proposed cementing program will be as follows:

#### Surface String:

Cement will be circulated to surface.

**Lead:** 200 sx Class "B" with 100% Standard Cement, 2.00% CaCl2, .25 #/sx Flocele. Density: 15.6 lb/gal; Yield: 1.18 cuft/sx;

Water: 5.24 gal/sx

\* Minor variations possible due to existing conditions

#### Intermediate String:

Cement will be circulated to surface.

**Lead:** 500 sx 50/50 Poz, Yd-1.45, Water Gal/sx 6.8, Mixed @ 13ppg Foamed W/ N2 Down To 9.0# Additives 2% Gel, 0.2% Versaset, 0.1% Diacel Lwl.

**Tail:** 75 sx 50/50 Poz, Yd-1.45, Water Gal/Sk 6.8, Additives 2% Gel, 0.2% Versaset, 0.1% Diacel Lwl.

\* Minor variations possible due to existing conditions

If hole conditions dictate, an alternate, cement design will be used:

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

cuft/sx; Water: 6.42 gal/sx

Tail: 75 sx 50/50 Poz with 94#/sx Standard Cement, 0.3%

Halad-344, .25 #/sx Flocele. Density: 15.6 lb/gal; Yield: 1.18

cuft/sx; Water: 5.23 gal/sx

\* 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:** 250 sx 50/50 Poz with 2% Gel, 0.2% Halad, 0.1% CFR-3, 5 #/sx Gilsonite, 0.25 #/sx Flocele. Mixed at 13 ppg, 1.47 ft 3/sx foamed to 9 ppg, 2.18 ft 3/sx.

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

\* Minor variations possible due to existing conditions

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

#### 4. DRILLING FLUIDS PROGRAM:

TMD Interval	TVD Interval	Type	Weight (ppg)	Viscosity	рН	Water Loss	Remarks
0-285'	0-285'	Spud- foam	8.4-9.0	29-70	8.0	NC	FW gel, LSND or stiff foam
285'-3,664'	285'-3,501'	Water/ Mud	8.4-9.0	29-70	8.0	NC	
3,664' - TD	3,501' - 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.

**Survey:** Deviation surveys will be taken every 500' from 0-TD or first succeeding bit

change. The hole will be air drilled from intermediate casing point to TD. The

equipment used in this type of operation will not allow for single shot surveys without considerable operational delays therefore 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.

**DST's:** None anticipated.

#### 6. ABNORMAL CONDITIONS:

The Fruitland Coal will be encountered in the 8-3/4" hole. Estimated formation pressure is 300 psi. No other abnormal pressures and/or temperatures are expected. No hydrogen sulfide should be present.

#### 7. OTHER INFORMATION:

The anticipated starting date and duration of the operation will be as follows:

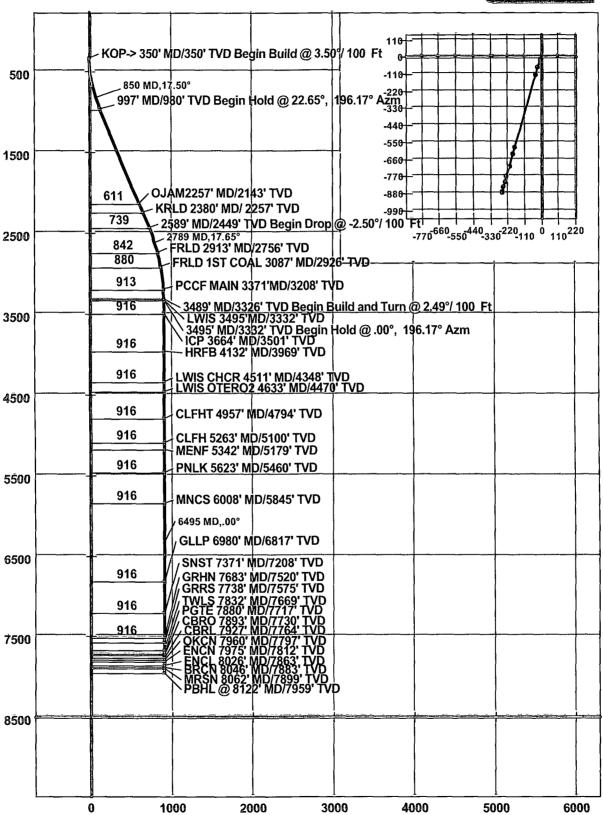
Starting Date: Upon Approval

Duration: 20 days

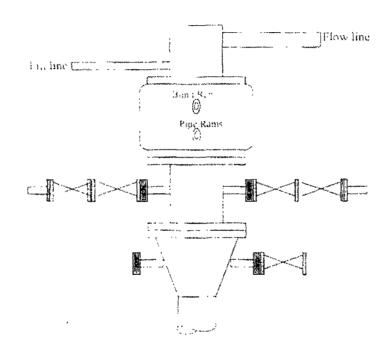
If the well is completed as a dry hole or as a producer, Well Completion or Recompletion Report and Log (Form 3160-4) will be submitted within 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3160. Copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample descriptions, daily drilling reports, daily completion reports, and all other surveys or data obtained and compiled during the drilling, completion, and/or workover operations, will be submitted directly to the Authorized Officer or filed with Form 3160-4.

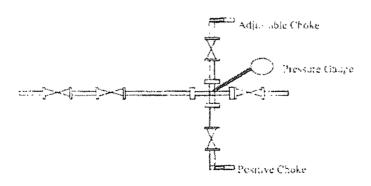
Company: DEVON ENERGY Lease/Well: NEBU 353 Location: SAN JUAN CO. State/Country: NM





## Well Control Equipment 2,000 psi Configuration





MI well control equipment designed to meet or exceed the Onshore O.I and Gas Order No. 2, BI M 43 CI R  $_3$  50 requirements for 2M systems.