

**N.M. Oil Cons. DIV-Dist. 2**  
**1301 W. Grand Avenue**  
**Artesia, NM 88210**

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. NMNM103263
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator DEVON ENERGY PRODUCTION CO, LP		7. If Unit or CA Agreement, Name and No.
Contact: KAREN COTTOM E-Mail: karen.cottom@devn.com		8. Lease Name and Well No. STOCK TANK 15 FED COM 1
3a. Address 20 N BROADWAY, STE 1100 OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405.228.7512 Fx: 405.552.4621	9. API Well No. 30-005-63371
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSW 1980FSL 660FWL At proposed prod. zone NWSW 1980FSL 660FWL		10. Field and Pool, or Exploratory WILDCAT Mississippian
14. Distance in miles and direction from nearest town or post office* 16 MILES SE OF HAGERMANN NEW MEXICO		11. Sec., T., R., M., or Blk. and Survey or Area Sec 15 T15S R28E Mer NMP SME: BLM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660	16. No. of Acres in Lease 1680.00	12. County or Parish CHAVES
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 9500 MD	13. State NM
21. Elevations (Show whether DF, KB, RT, GL, etc.) 3574 GL	22. Approximate date work will start 06/15/2003	17. Spacing Unit dedicated to this well 320.00
		20. BLM/BIA Bond No. on file
		23. Estimated duration 45 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.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 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). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) KAREN COTTOM	Date 04/29/2003
Title ENGINEERING TECHNICIAN		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) LARRY D BRAY	Date 06/12/2003
Title ASST FIELD MANAGER		
Office Roswell		

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 #21166 verified by the BLM Well Information System  
 For DEVON ENERGY PRODUCTION CO, LP, sent to the Roswell  
 Committed to AFMSS for processing by Linda Askwig on 05/01/2003 (03LA0097AE)**

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

**Additional Operator Remarks:**

Original Application expired 4/5/2003.

We propose to drill to a depth sufficient to test the Morrow formation for gas. If productive, 5 1/2 casing will be cemented to TD. If nonproductive, the well will be plugged and abandoned in a manner consistent with Federal Regulations. Specific programs are outlined in the attached documents.

DISTRICT I  
1825 N. French Dr., Hobbs, NM 88240

DISTRICT II  
811 South First, Artesia, NM 88210

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

2

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised March 17, 1999

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

## OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		WILDCAT
Property Code	Property Name	Well Number
	STOCK TANK "15" FEDERAL	1
OWNED No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	Elevation 3574'

#### Surface Location

UL or lot No.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
L	15	15 S	28 E		1980	SOUTH	660	WEST	CHAVES

#### Bottom Hole Location if Different From Surface

UL or lot No.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

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

	<b>OPERATOR CERTIFICATION</b>  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.   Signature James Blount Printed Name Oper. Engineering Advisor Title April 29, 2003 Date
	<b>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.  December 8, 2000 Date Surveyed Signature Professional Seal NEW MEXICO W.O. No. 08624 Certified No. Gary 7977

## DRILLING PROGRAM

Attached to Form 3160-3

Devon SFS Operating, Inc.

**STOCK TANK 15 FEDERAL COM #1**

(L) 1980' FSL & 660' FWL, Section 15-T-15-S, R-28-E

Chaves County, New Mexico

1. Geologic Name of Surface Formation

Alluvium

2. Estimated Tops of Important Geologic Markers

Queen	1,200'
Glorieta	3,300'
Tubb	4,600'
Abo	5,400'
Wolfcamp	6,600'
Atoka	8,900'
Morrow	9,000'
Mississippian	9,200'
TD	±9,500'

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas

The estimated depths at which water, oil and gas will be encountered are as follows.

Water: None expected in area

Gas: Morrow @ 9000' - 9,200'

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 500' and circulating cement back to surface. The oil and gas intervals will be isolated by setting 5 1/2" casing at TD and bringing cement top to approximately 7000'.

**STOCK TANK 15 FEDERAL COM #1**  
**DRILLING PLAN**  
**PAGE 2**

**4. Casing Program**

<u>INTERVALS</u>	<u>LENGTH</u>	<u>CASING</u>	<u>BURST</u> PSI (DF)	<u>COLLAPSE</u> PSI (DF)	<u>TENSION</u> LBS (DF)	<u>TORQUE</u> FT-LBS (DF)
<u>Surface</u>						
0 - 500'	500'	13 3/8" 48# H-40 STC	1730	740 (2.96)	322M (13.4)	3220
<u>Intermediate</u>						
0 - 2000'	2000'	8 5/8" 32# J-55 STC	3930 (1.85)	2530 (2.53)	372M (5.81)	4020
<u>Production</u>						
0 - 1000'	1000'	5 1/2" 17# L-80 LTC	7740 (1.71)	5673 (12)	338M (2.54)	3410
1000' - 6900'	5900'	5 1/2" 15.5# J-55 LTC	4810 (1.18)	3926 (1.2)	217M (1.87)	2390
6900' - 9500'	2600'	5 1/2" 17# L-80 LTC	7740 (6.06)	6290 (1.39)	338M (13.72)	3410

**Cementing Program**

<u>HOLE SIZE</u>	<u>DEPTH</u>	<u>CEMENT</u>	<u>YIELD</u> CF/SX	<u>% EXCESS</u>	<u>TOC</u>	<u>WOC</u> HRS
<u>Surface</u>						
17 1/2"	500'	Lead: 250 sxs lite + 2% CaCl <sub>2</sub> + 1/4#/sx celloflk (12.7#/gal) Tail: 200 sxs Cl "C" + 2% CaCl <sub>2</sub> + 1/4#/sx celloflk (14.8#/gal)	1.88  1.35	100	Surf.	18
<u>Intermediate</u>						
12 1/4"	2000'	Lead: 350 sxs lite + 5% + 1/4#/sx celloflk (12.7#/gal) Tail: 200 sxs Cl "C" + 2% CaCl <sub>2</sub> + 1/4#/sx celloflk (14.8#/gal)				
<u>Production</u>						
7 7/8"	9500'	Lead: 650 sx Class H w/3% KCl + 1% FL-25 + .1% sodium metasilicate + 5#/sx gilsonite + 1/4#/sx celloflake + .003 gal/sx FP-13L	1.6  1.2	30	7000'	24

The cement volumes for the 5 1/2" casing will be revised pending the caliper measurement from the open hole logs.

**STOCK TANK 15 FEDERAL COM #1**  
**DRILLING PLAN**  
**PAGE 3**

**5. Minimum Specifications for Pressure Control**

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a (3M system) double ram type (3000 psi WP) preventer and a bag-type (Hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 4 ½" drill pipe rams on bottom. Both BOP's will be installed on the 8 5/8" surface casing and utilized continuously until total depth is reached. As per BLM Drilling Operations Order #2, prior to drilling out the 8 5/8" casing shoe, the BOP's and Hydril will be function tested.

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a kelly cock, floor safety valve, choke lines and choke manifold having 3000 psi WP rating.

**6. Types and Characteristics of the Proposed Mud System**

The well will be drilled to total depth brine with starch mud systems. Depths of systems are as follows.

<u>Depth</u>	<u>Type</u>	<u>Weight (ppg)</u>	<u>Viscosity (1/sec)</u>	<u>Water Loss (cc)</u>
0' - 2000'	Fresh Water	8.5	40	No control
2000' - 5200'	Fresh Water	8.5	40	No control
5200' - 8800'	Cut Brine	9.0	35-40	No control
8800' - TD	CutBrine/Starch	9.2 - 9.8	38-40	6 - 10

The necessary mud products for weight addition and fluid loss control will be on location at all times.

**7. Auxiliary Well Control and Monitoring Equipment**

- A. A kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

**STOCK TANK 15 FEDERAL COM #1**  
**DRILLING PLAN**  
**PAGE 4**

**8. Logging, Testing and Coring Program**

- A. Drill stem tests may be run on potential pay interval.
- B. The open hole electrical logging program will be as follows.
  - 1) DLL/MSFL/GR from total depth to base of intermediate casing.
  - 2) CNL/LDT/GR from total depth to base of intermediate casing with CNL/GR to surface.
- C. No coring program is planned.
- D. Additional testing will be initiated subsequent to setting the 5 1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

**9. Abnormal Pressures, Temperatures and Potential Hazards**

No abnormal pressures or temperatures are foreseen. The anticipated bottom hole temperature at total depth is 140 degrees and maximum bottom hole pressure is 4200 psi. No Hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation intervals have been encountered in adjacent wells.

**10. Anticipated Starting Date and Duration of Operations**

The road and location were constructed in 2002 prior to the expiration of the APD. The anticipated spud date for the project is June 15 2003. The drilling operation should require approximately 45 days. If the well is deemed productive, completion operations will require, at minimum, an additional 30 days of testing to ascertain whether permanent production facilities will be constructed.

**Attachment to Exhibit #1**  
**NOTES REGARDING BLOWOUT PREVENTERS**  
**Devon SFS Operating, Inc.**  
**STOCK TANK 15 FEDERAL COM #1**  
**(L) 1980' FSL & 660' FWL, Section 15-T-15-S, R-28-E**  
**Chaves County, New Mexico**

1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
4. All fittings will be flanged.
5. A full bore safety valve tested to a minimum 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a kelly cock attached to the kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operation.
10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.



**UNITED STATES DEPARTMENT OF THE INTERIOR**  
**Bureau of Land Management**  
**Roswell Field Office**  
**2909 West Second Street**  
**Roswell, New Mexico 88201-1287**

**Statement Accepting Responsibility for Operations**

Operator Name: **Devon Energy Production Company, LP**  
Street or Box: **20 North Broadway, Ste 1500**  
City, State: **Oklahoma City, OK 73102**  
Zip Code:

The undersigned accepts all applicable terms, conditions, stipulations and restrictions concerning operations conducted on the leased land or portion thereof, as described below.

Lease No.: **NM103263**  
Legal Description of Land: **1680 Acres, Sec 15, T15S, R28E**  
Formation(s): **Wildcat**  
Bond Coverage: **Nationwide**  
BLM Bond File No.: **C01104**

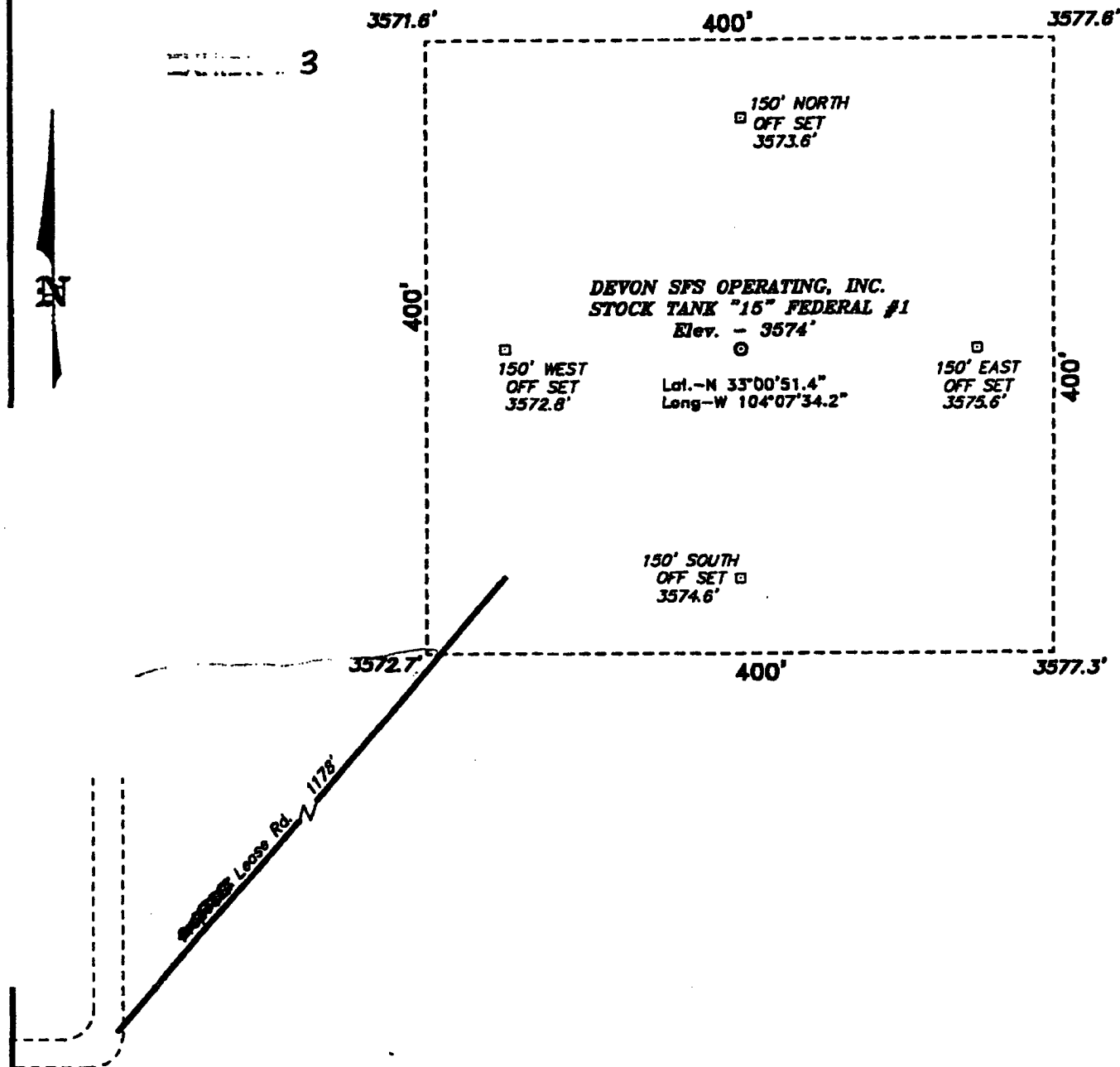
Authorized Signature:

  
**Bill Greenlees**

Title: **Operations Engineering Advisor**

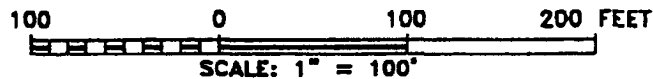
Date: **4/29/03**

**SECTION 15, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M.,  
CHAVES COUNTY, NEW MEXICO.**



**Directions to Location:**

FROM THE JUNCTION OF US HWY 82 & CO. RD. 214, GO NW 11.2 MILES, THENCE 1.6 MILES NE THROUGH FENCE; THENCE NE 3.2 MILES ON CALICHE ROAD; THENCE 0.8 MILES EAST PAST YATES AT #4 WELL TO A 2-TRACK ROAD; THENCE SOUTH 0.2 MILE; THENCE 0.5 MILE EAST TO PROPOSED LEASE ROAD.



**DEVON SFS OPERATING, INC**

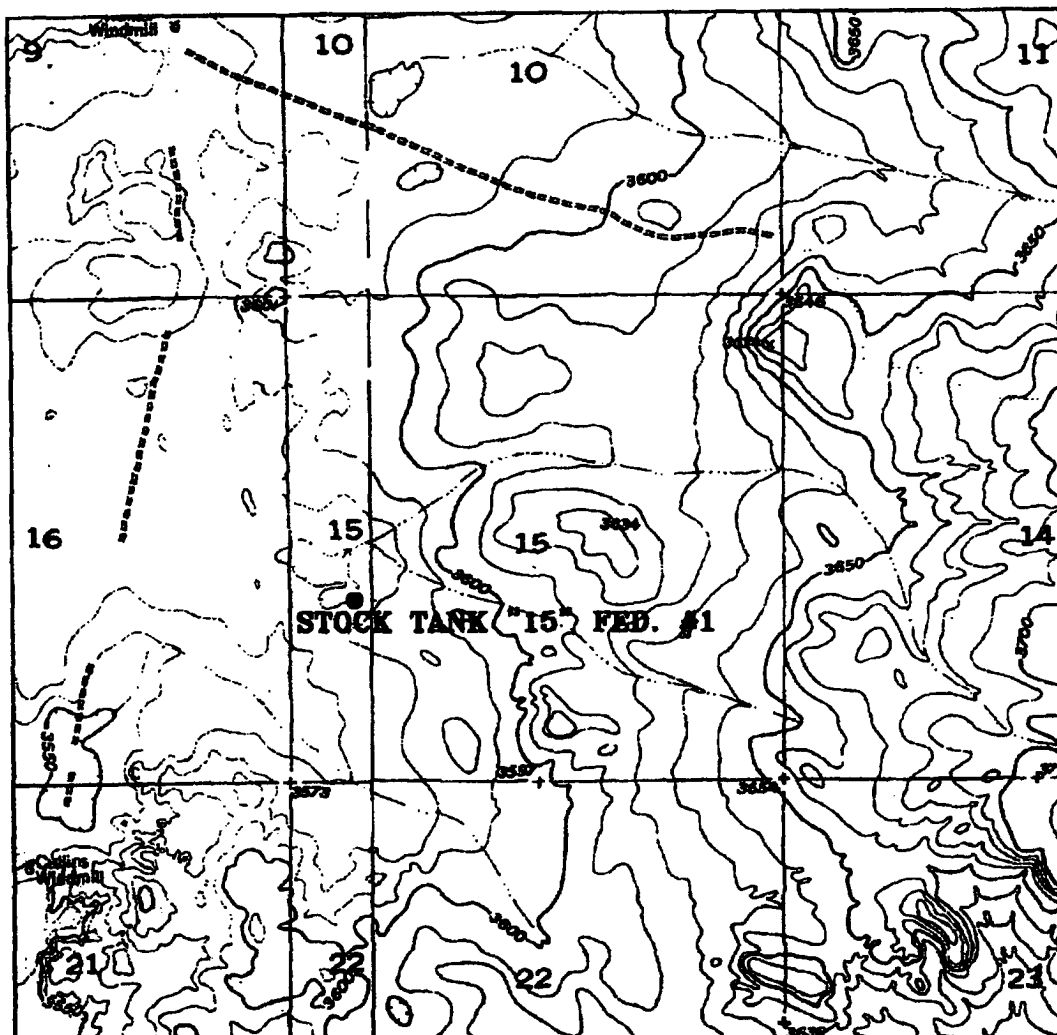
REF: Stock Tank "15" Fed. Com. No. 1 / Well Pad Topo

THE STOCK TANK "15" FED. No. 1 LOCATED 1980' FROM THE SOUTH LINE AND 660' FROM THE WEST LINE OF SECTION 15, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M., CHAVES COUNTY, NEW MEXICO.

**BASIN SURVEYS** P.O. BOX 1788-HOBBS, NEW MEXICO

W.O. Number: 0667

Drawn By: K. GOAD



**STOCK TANK "15" FED. #1**  
 Located at 1980' FSL and 660' FWL  
 Section 15, Township 15 South, Range 28 East,  
 N.M.P.M., Chaves County, New Mexico.

**basin**  
**surveys**  
 focused on excellence  
 in the oilfield

P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (505) 393-7318 - Office  
 (505) 382-3074 - Fax  
 basin-surveys.com

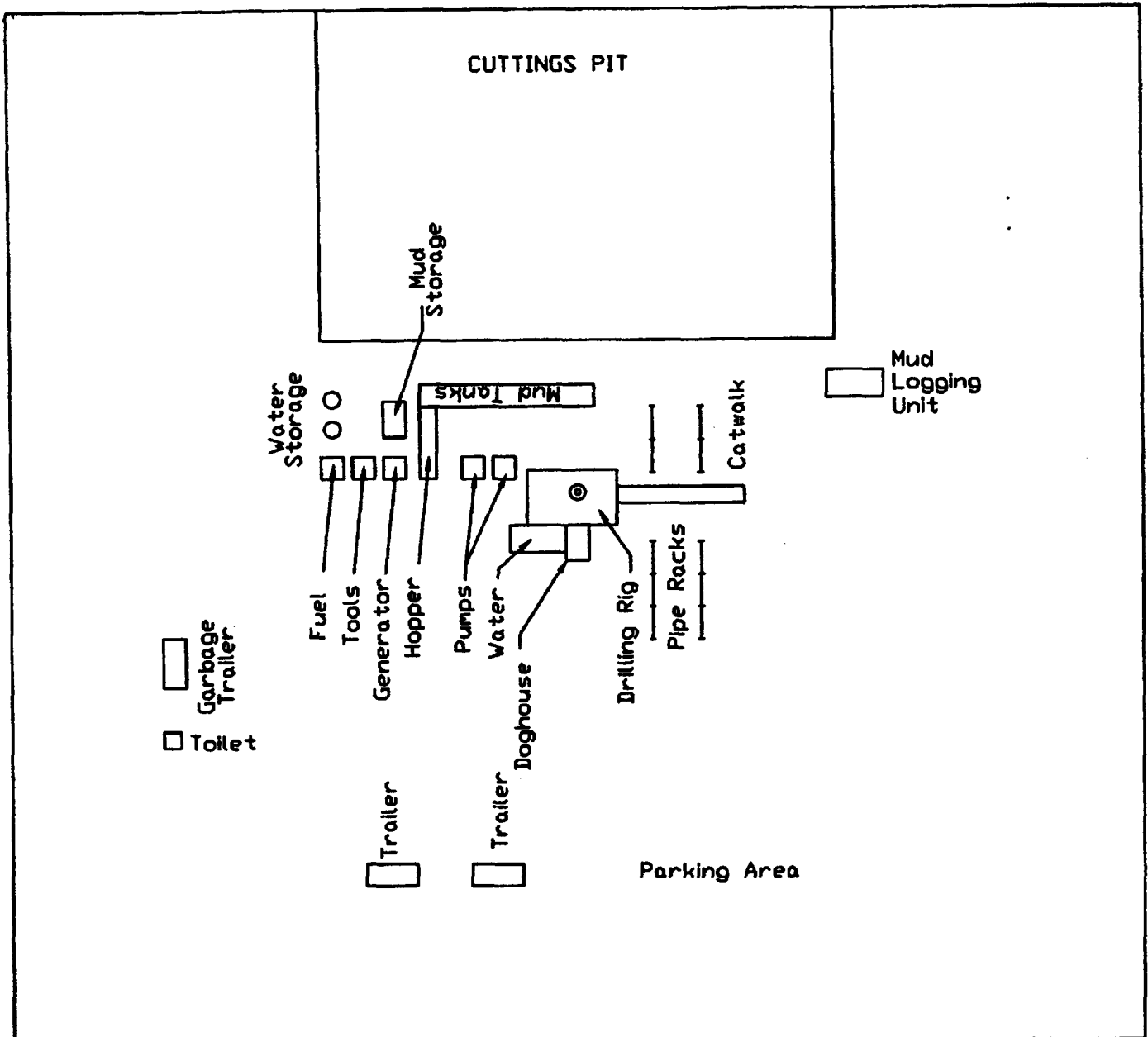
W.O. Number: 0867AA - KJG #122


Survey Date: 12-08-2000

Scale: 1" = 2000'

Date: 12-11-2000

**DEVON**  
**SFS OPERATING**  
**INC.**





DEVON ENERGY CORP.

**STOCK TANK #15 FEDERAL**

CHAMBERLAIN COUNTY, NEW MEXICO

**Drilling Pad**

**EXHIBIT 5**

# MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3,000 psi Working Pressure

3 MWP

EXHIBIT #

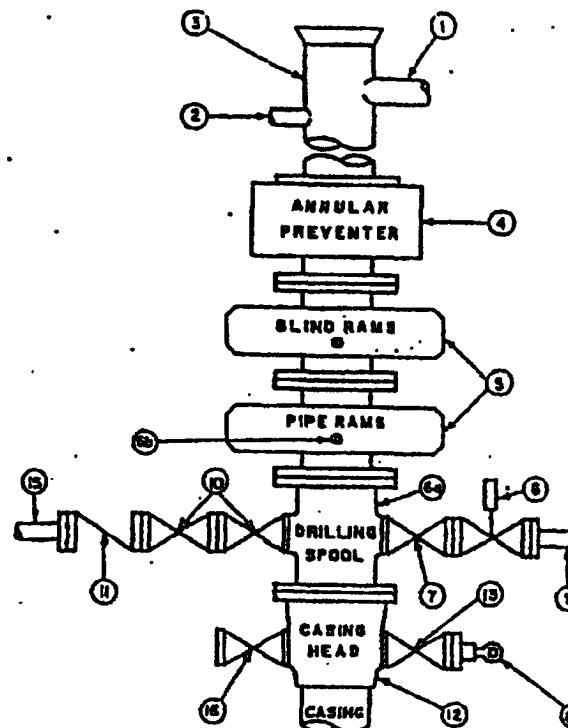
## STACK REQUIREMENTS

No.	Item	Min. I.D.	Min. Nominal
1	Flowline		
2	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		
5	Two single or one dual hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3" min choke line outlets		
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above.)		
7	Valve Gate <input type="checkbox"/> Plug <input type="checkbox"/>	3-1/8"	
8	Gate valve—power operated	3-1/8"	
9	Line to choke manifold		3"
10	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/>	2-1/16"	
11	Check valve	2-1/16"	
12	Casing head		
13	Valve Gate <input type="checkbox"/> Plug <input type="checkbox"/>	1-13/16"	
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"

## OPTIONAL

16	Flanged valve	1-13/16"	
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CONFIGURATION A



## CONTRACTOR'S OPTION TO FURNISH:

1. All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psi, minimum.
2. Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
3. BOP controls, to be located near drillers position.
4. Kelly equipped with Kelly cock.
5. Inside blowout preventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
6. Kelly sever-sub equipped with rubber casing protector at all times.
7. Plug type blowout preventer tester.
8. Extra set pipe rams to fit drill pipe in use on location at all times.
9. Type RX ring gaskets in place of Type R.

## MEC TO FURNISH:

1. Bradenhead or casinghead and side valves.
2. Wear bushing, if required.

## GENERAL NOTES:

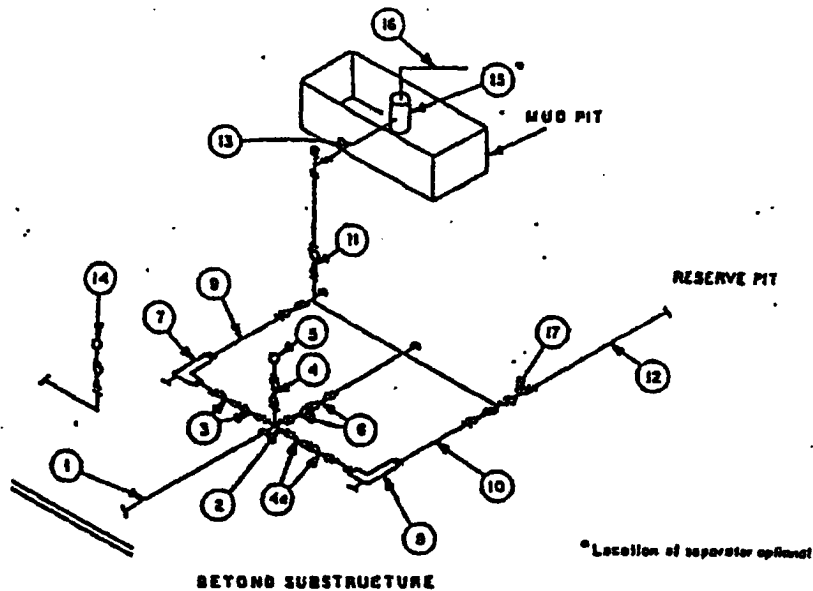
1. Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
2. All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke. Valves must be full opening and suitable for high pressure mud service.
3. Controls to be of standard design and each marked, showing opening and closing position.
4. Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
5. All valves to be equipped with handwheels or handles ready for immediate use.
6. Choke lines must be suitably anchored.

7. Handwheels and extensions to be connected and ready for use.
8. Valves adjacent to drilling spool to be kept open. Use outside valves except in emergency.
9. All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
10. Casinghead connections shall not be used except in case of emergency.
11. Do not use kill line for routine fill-up operations.

**MINIMUM CHOKE MANIFOLD**  
3,000, 5,000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP

EXHIBIT # 1



MINIMUM REQUIREMENTS										
No.		3,000 MWP			5,000 MWP			10,000 MWP		
		I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool		3"	3,000		3"	5,000		3"	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000			
	Cross 3"x3"x3"x3"									10,000
3	Valves(1) Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
4	Valve Gate □ Plug □(2)	1-13/16"		3,000	1-13/16"		5,000	1-13/16"		10,000
4a	Valves(1)	2-1/16"		3,000	2-1/16"		5,000	3-1/8"		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
7	Adjustable Choke(3)	2"		3,000	2"		5,000	2"		10,000
8	Adjustable Choke	1"		3,000	1"		5,000	2"		10,000
9	Line		3"	3,000		3"	5,000		3"	10,000
10	Line		2"	3,000		2"	5,000		3"	10,000
11	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
12	Lines		3"	1,000		3"	1,000		3"	2,000
13	Lines		3"	1,000		3"	1,000		3"	2,000
14	Remote reading compound standpipe pressure gauge			3,000			5,000			10,000
15	Gas Separator		2'x5'			2'x5'			2'x5'	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000

(1) Only one required in Class 3M.

(2) Gate valves only shall be used for Class 10M.

(3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

**EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS**

- All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- All lines shall be securely anchored.
- Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using butt plugged tees.
- Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well.