

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N. M. Oil Co., Division  
(See other instructions on  
841-614 ST ST.  
ARTESIA, NM 88210-2834

Form approved.

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK: ☒ DRILL ☐ DEEPEN

b. TYPE OF WELL: ☒ OIL WELL ☐ GAS WELL ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR: DEVON ENERGY CORPORATION (NEVADA)

3. ADDRESS AND TELEPHONE NO.: 20 N. BROADWAY, SUITE 1500, OKC, OK 73102 (405) 235-8611

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1335' FSL & 1040' FWL UNORTH'Dox LOCATION: **LINE APPROVED By State**

At top proposed prod. zone (SAME) UNTIL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 7 miles southeast of Artesia, NM

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 1040'

16. NO. OF ACRES IN LEASE 640

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 500

19. PROPOSED DEPTH 2800'

20. ROTARY OR CABLE TOOLS\* Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) GL 3437

22. APPROX. DATE WORK WILL START\* July 15, 1997

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	14"	Conductor	40'	Redimix
12 1/4"	8 5/8", J-55	24 ppf	1150'	300 sx Lite + 200 sx Class C
7 7/8"	5 1/2", J-55	15.5 ppf	2800'	150 sx Lite + 350 sx Class C

\* Cement will be circulated to surface on all casing strings.

Devon Energy plans to drill to 2800'+/- to test the San Andres Formation for commercial quantities of oil. If the San Andres is deemed non-commercial, the wellbore will be plugged and abandoned per Federal regulations. Programs to adhere to onshore oil and gas regulations are outlined in the following exhibits and attachments.

Drilling Program concerning  
Surface Use and Operating Plan  
Exhibit #1 - Blowout Prevention Equipment  
Exhibit #1-A - Choke Manifold  
Exhibit #2 - Location and Elevation Plat  
Exhibit #3 - Planned Access Roads  
Exhibit #4 - Wells Within a One Mile Radius  
Exhibit #5 - Production Facilities Plan  
Exhibit #6 - Rotary Rig Layout  
Exhibit #7 - Casing Design Parameters and Factors  
H<sub>2</sub>S Operating Plan

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

Bond Coverage: Nationwide  
BLM Bond File No.: CO-1104

Approval Subject to  
General Requirements and  
Special Stipulations  
Attached

Posted FD-1  
NLM NPI  
7-25-97

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED E. L. Buttross Jr.

E. L. BUTTROSS, JR.  
TITLE DISTRICT ENGINEER

DATE

6/3/97

\*(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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:

ADM. MINERALS

APPROVED BY (ORIG. SCD) TONY L. FERGUSON

TITLE

DATE

7/1/97

See Instructions On Reverse Side

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Exhibit 2

Form C-102  
Revised February 10, 1994  
Instruction on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name Red Lake (Q-GB-SA)
Property Code	Property Name Hawk "10" L Federal	Well Number 12
OGRID No.	Operator Name Devon Energy Corporation	Elevation 3437'

Surface Location

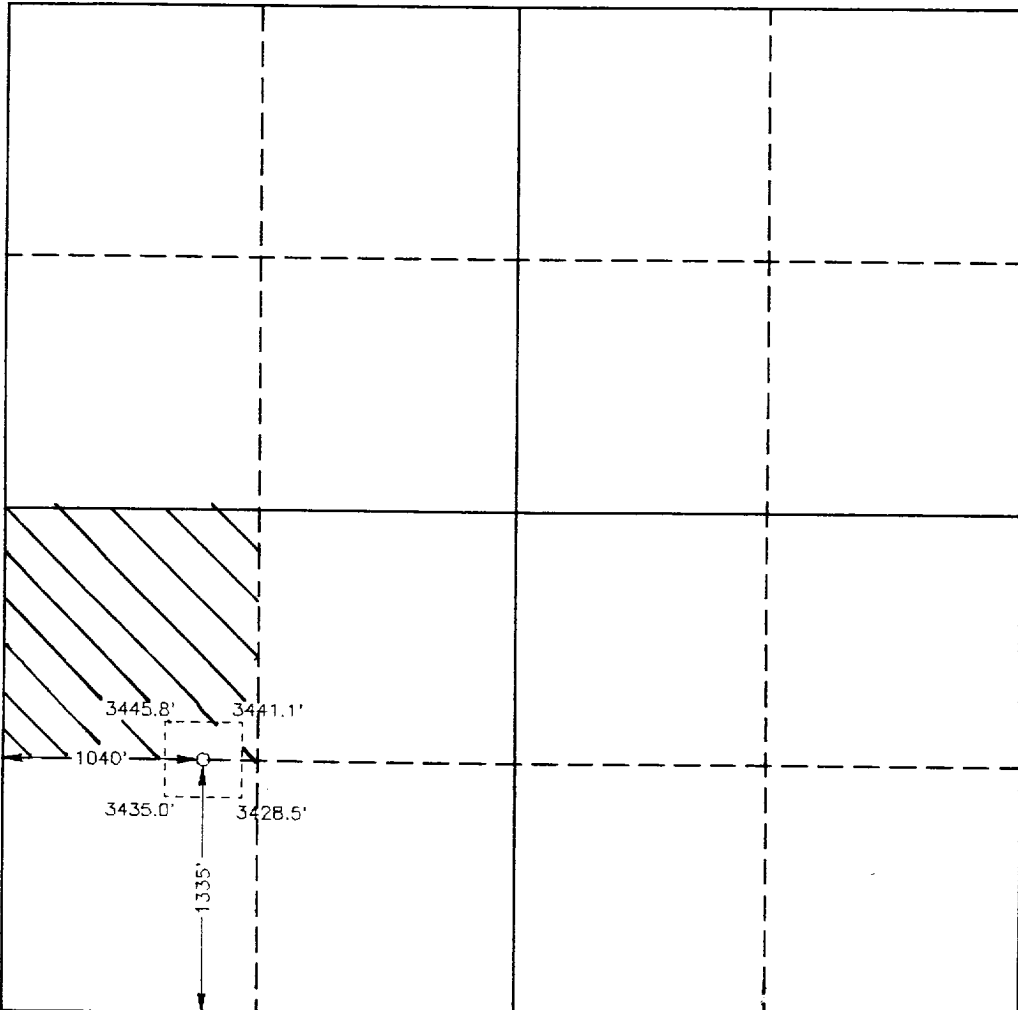
UL or lot No. L	Section 10	Township 18 S	Range 27 E	Lot Idn	Feet from the 1335	North/South line South	Feet from the 1040	East/West line West	County Eddy
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres	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><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>E. L. Buttross Jr.</u> Signature E. L. Buttross, Jr. Printed Name District Engineer Title June 3, 1997 Date</p> <p><b>SURVEYOR CERTIFICATION</b></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>May 17, 1997 Date Surveyed Signature &amp; Seal of Professional Surveyor W.O. No. 702208 Certificate No. Gary L. Jones 7977 PROFESSIONAL LAND SURVEYOR BASTIN-SURVEYS</p>
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# MINIMUM BLOWOUT PREVENTER REQ

3,000 psi Working Pressure

EXHIBIT 1

3 MWP

## STACK REQUIREMENTS

No	Item	Min I.D.	Min Nominal
1	Flowline		
2	Fill up line		2"
3	Drilling supply		
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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## CONTRACTOR'S OPTION TO FURNISH:

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

## MEC TO FURNISH:

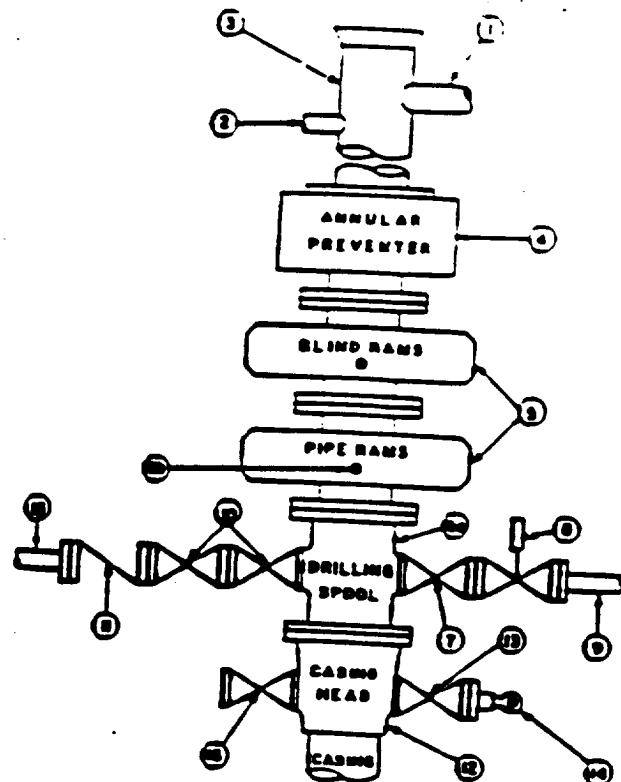
- Bradenhead or casinghead and side valves.
- Wear bushing, if required.

## GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 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.
- Controls to be of standard design and each marked, showing opening and closing position.
- Choke will be positioned so as not to hamper or delay changing of choke bars. Replaceable parts for adjustable choke, other bar sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwheels or handles ready for immediate use.
- Choke lines must be suitably anchored.

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

CONFIGURATION 4



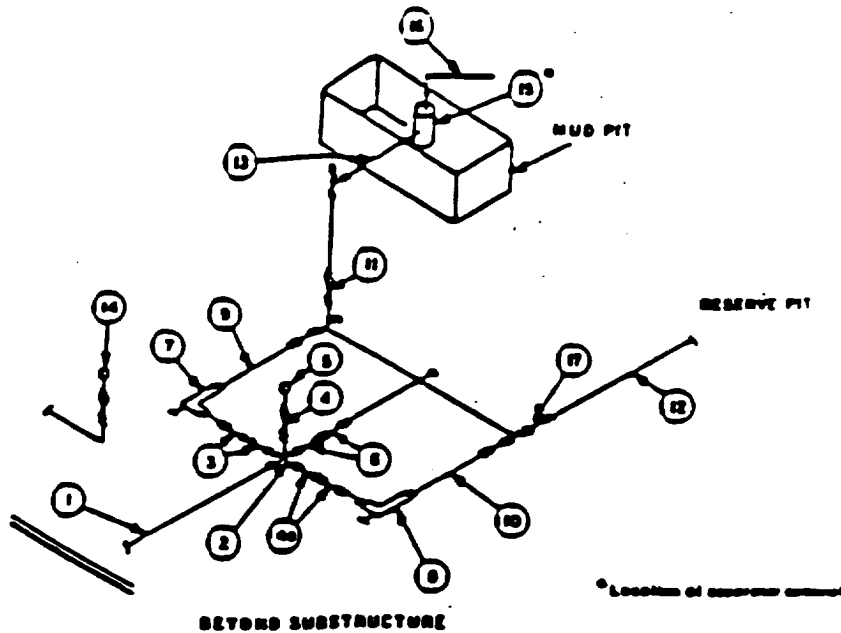
Attachment to Exhibit #1  
NOTES REGARDING BLOWOUT PREVENTORS  
Devon Energy Corporation (Nevada)  
Hawk "10" L Federal #12  
1335' FSL & 1040' FWL  
Section K-10-T18S-R27E  
Eddy County, New Mexico

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 preventor 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 preventor 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.

MINIMUM CHOKE MANIFOLD  
3,000, 5,000 and 10,000 PSI Working P.

3 MWP - 5 MWP - 10 MWP

EXHIBIT 1A



MINIMUM REQUIREMENTS										
No		3,000 MWP			5,000 MWP			10,000 MWP		
		I.D.	INCH	RATING	I.D.	INCH	RATING	I.D.	INCH	RATING
1	Line from drilling steel		3"	3,000		3"	5,000		3"	10,000
2	Cross 3"x3"x3"x3"			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	2-1/16"		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	Automatic Choke (2)	2"		3,000	2"		5,000	2"		10,000
8	Automatic 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 manifold 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 valve-only shall be used for Class 3M.

(2) 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, bolted, 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 steel to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using full plugged tool.
- Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well.