G Williams

3160(067)
NM-0405444

MAR 26 1993

CERTIFIED--RETURN RECEIPT REQUESTED
P 864 875 246

Devon Energy Corporation (Nevada)
Attention: Charles W. Horsman
1500 Mid-America Tower
20 North Broadway
Oklahoma City, OK 73102-8260

RE: Todd "23J" Federal Well No. 14
NMNM-0405444
2077' FSL & 1600' FEL, Sec. 23, T23S, R31E
Eddy County, New Mexico

Dear Mr. Horsman:

I am pleased to approve your Application for Permit to Drill (APD) at the present location. Your copy of the APD, with attached stipulations, is enclosed.

If you need any additional information, please contact Tony Herrell at the Carlsbad Resource Area (505) 887-6544.

Sincerely,

/s/ Monte G. Jordan

for Larry L. Woodard
State Director

1 Enclosure:
1 - Application for Permit to Drill (APD)

bcc:
NM (910, L. Woodard)
NM (920, R. Smith)
NM (067, T. Herrell)
NM (060, A. Lopez)
NM (060, L. Cone)

067:GWilliams:nf:03/09/93:A:\23TODD14.AL

30-015-27382

Form 3160-3
(December 1990)

SUBMIT 1 REPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: NM0405444

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME, WELL NO.: Todd "23J" Federal #14

9. API WELL NO.:

10. FIELD AND POOL, OR WILDCAT: Ingle Wells Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Unit J Section 23-T23S-R31E

12. COUNTY OR PARISH: Eddy

13. STATE: NM

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Devon Energy Corporation (Nevada)

3. ADDRESS AND TELEPHONE NO.: 20 North Broadway Suite 1500 Oklahoma City, OK 73102-8260

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 2077' FSL & 1600 FEL
At proposed prod. zone: same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 35 miles west-northwest of Jal, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1600'	1320	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
135'	8350'	rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3458.2

22. APPROX. DATE WORK WILL START*: March 30, 1993

23. PROPOSED CASING AND CEMENTING PROGRAM Secretary's Potash / R-111-P Potash

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17½	13 3/8"	54#	850'-CIRCULATE	460 sx LITE + 200 sx Class C
11"	8 5/8"	32#	4400'-CIRCULATE	1600 sx LITE + 200 sx Class C
7 7/8"	5½"	15.5# & 17.0#	8350 (tie back)	1st Stage: 600 sx Silica LITE
			Stage Collar at ±5500'	2nd Stage: 500 sx LITE + 100 sx Silica LITE

Devon Energy proposes to drill to approximately 8350' to test the Delaware for commercial quantities of oil. If the Delaware is deemed non-commercial, the wellbore will be plugged and abandoned as per Federal regulations. Programs to adhere to onshore oil and gas regulations are outlined in the following exhibits and attachments.

Drilling Program

Surface Use and Operating Plan
Exhibit #1 and #1-A = Blowout Prevention Equipment
Exhibit #2 = Location and Elevation Plat
Exhibit #3 = Planned Access Roads
Exhibit #4 = Wells Within One Mile Radius
Exhibit #5 = Production Facilities Plat
Exhibit #6 = Rotary Rig Layout
Exhibit #7 = Casing Program
Evidence of Bond Coverage

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED, and to NMOCD's R-111-P

Post 10-1 4-9-93 Hobbs, NM

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.

24.

SIGNED Charles W. Horsman TITLE Charles W. Horsman District Engineer DATE 1/4/93

(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:

APPROVED BY _____ TITLE _____ DATE _____

* Pending NL BIA Approval

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes 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.

RECEIVED
BUREAU OF LAND MANAGEMENT
JAN 11 1993
CARLSBAD, NEW MEXICO

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill or deepen an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the operator elects to initiate drilling operation on an oil and gas lease.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 1849 C Street, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0136), Washington, D.C. 20503.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the operator elects to initiate drilling operations on an oil and gas lease.

*U.S. GPO: 1991-573-016/26050

DRILLING PROGRAM

Attached to Form 3160-3
Devon Energy Corporation
Todd "23J" Federal #14
2077' FSL & 1600' FEL
Section 23-T23S-R31E
Eddy County, New Mexico

1. Geologic Name of Surface Formation:

   Permian

2. Estimated Tops of Important Geologic Markers:

Rustler	785'
Top of Salt	1080'
Base of Salt	4180'
Bell Canyon	4410'
Cherry Canyon	5300'
Brushy Canyon	7000'
First Bone Spring Lime	8300'
Total Depth	8350'

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

Upper Permian Sands		Fresh Water
Delaware	4410'	Oil
Delaware (Cherry Canyon)	6010'	Oil
Delaware (Brushy Canyon)	8025'	Oil

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 850' and circulating cement back to surface. Potash and salt will be protected by setting 8-5/8" casing at 4400' and circulating cement to surface. The Delaware intervals will be isolated by setting 5-1/2" casing to total depth and circulating cement above the base of the 8-5/8" casing.

4. Casing Program:

Hole Size	Interval	Csg OD	Weight, Grade, Type
25"	0-40'	20"	Conductor, 0.30" wall
17-1/2"	0-850'	13-3/8"	48#, Wildcat 40 (LSS) ST&C
11"	0-4000'	8-5/8"	32#, Wildcat-50 (LSS) ST&C
11"	4000-4400'	8-5/8"	32#, J-55, ST&C
7-7/8"	0-TD	5-1/2"	15.5 & 17#, K-55, N-80, LT&C, New, R-3

Casing Program:

20" Conductor Casing: Cemented with ready-mix to surface.

13-3/8" Surface Casing: Cemented to surface using 460 sx Poz "C" (35:65) + 6% Gel + 1/4# sx Flocele followed by 200 sx Class "C" + 2% CC.

8-5/8" Intermediate Casing: Cemented to surface with 1600 sx Poz "C" (35:65) + 6% Gel + 10% Salt + 1/4# sx Flocele followed by 200 sx Class "C" + 2% CC + 0.25 lb/sx Flocele.

5-1/2" Production Casing: Cemented with 600 sx Class "H" + 3% Salt + 0.6% Halad 322 + 10#/sx Silicalite + 1/4# sx Flocele.

Stage Tool at ±5500'. Cemented with 500 sx Poz "H" (35:65) + 6% Gel + 5% Salt + 1/4# sx Flocele followed by 100 sx Class "H" as in first stage.

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach above the 8-5/8" casing seat at 4400'.

5. Minimum Specifications for Pressure Control:

The blowout preventor equipment (BOP) shown in Exhibit #1 will consist of a (3M system) double ram type (3000 psi WP) preventor and a bag-type (Hydril) preventor (3000 psi WP). Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. Both BOP's will be installed on the 13-3/8" surface casing and utilized continuously until total depth is reached. All BOP's and associated equipment will be tested to 1400 psi before drilling out the 13-3/8" casing shoe (70% of 54.5# K-55 casing). Prior to drilling out the 8-5/8" casing shoe, the BOP's and Hydril will be function tested as per BLM Drilling Operations Order #2.

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 using brine, cut brine and polymer mud systems. Depths of systems are as follows:

Depth	Type	Weight (ppg)	Viscosity (1/sec)	Waterloss (cc)
0-850'	Fresh Water	8.8	34-36	No Control
850-4400'	Brine Water	10.0	28	No Control
4400-TD	Fresh Water Polymer	8.8	32-36	10-20

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.

C. Hydrogen Sulfide detection equipment will be in operation after drilling out the 13-3/8" casing shoe until the 8-5/8" casing is cemented. Breathing equipment will be on location upon drilling the 13-3/8" shoe until total depth is reached.

8. Logging, Testing and Coring Program:

A. Drillstem tests will be based on geological sample shows.

B. The open hole electrical logging program will be:

Total Depth to Intermediate Casing - Dual Laterolog-Micro Laterolog with Sp and Gamma Ray. Compensated Neutron - Z-Density Log with Gamma Ray and Caliper.

Total Depth to Surface - Compensated Neutron with Gamma Ray.

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 125 degrees and maximum bottom hole pressure is 2900 psig. No Hydrogen Sulfide gas has been reported or is known to exist at these depths in this area. No major loss circulation intervals have been encountered in adjacent wells.

10. Anticipated Starting Date and Duration of Operations:

Notice of Staking (NOS) was sent to the Carlsbad, New Mexico BLM office on December 23, 1992. A Cultural Resources Examination will be completed by New Mexico Archaeological Services and a copy forwarded to the Carlsbad, New Mexico BLM office.

Road and location preparation will not be undertaken until approval has been received from the BLM. The anticipated spud date is approximately March 31, 1993. The drilling operation should require approximately 20 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.

SURFACE USE AND OPERATING PLAN

Attachment to Form 3160-3
Devon Energy Corporation
Todd "23J" Federal #14
2077' FSL & 1600' FEL
Section 23-T23S-R31E
Eddy County, New Mexico

1. Existing Roads and Location Access Roads:

A. The well site and elevation plat for the proposed Todd "23J" Federal #14 is reflected on Exhibit #2. It was staked by West Engineering Company Hobbs, New Mexico.

B. All roads into the location are depicted in Exhibit #3. County road #798 will be used to access the location. No upgrades to existing lease roads will be necessary.

C. Directions to location: Travel west-northwest from Jal, N.M. approximately 35 miles on State Highway #128 to County Road #798, just into Eddy County from Lea County. Turn north (right) on #798 and travel 1.7 miles then turn west (left) onto the Todd "26G" Federal #1 entry road. Go approximately 0.33 miles and turn north (right). Go ±0.8 mile to the Todd "23J" Federal #2 and Todd "23J" Federal #3 locations. The proposed new well is 135' south-southwest of these wells and will be accessed from their well pads.

3. Location of Existing Wells:

Exhibit #4 shows all existing wells within a one-mile radius of the proposed Todd "23J" Federal #14. There are eleven producing Delaware oil wells, one producing Atoka gas well, one producing Atoka/Morrow gas well and two salt water disposal wells. A list of the wells is depicted on Exhibit #4 attachment.

4. Location of Existing and/or Proposed Facilities:

A. Devon Energy Corporation operates three production facilities on this lease in Section 23. They are as follows:

Heater Treater & Tank Battery (Delaware)
Wells #1 & #2

Heater Treater & Tank Battery (Delaware)
Well #4

High Pressure Separator - T-Pak (Atoka/Morrow)
Well #3

B. In the event the well is found productive, the probable production equipment will be as follows:

a. If approved, production facilities as outlined on Exhibit #5 will be built on the pad site of the Todd "23O" Federal #5. This facility will have three or four 500 barrel oil tanks.

b. The tank battery, all connections and all lines will adhere to API standards.

c. The well will be operated by means of a gas driven prime mover. No power will be required.

C. If the well is productive, rehabilitation plans are as follows:

a. The reserve pit will be back-filled after the contents of the pit are dry (within 120 days after completion, weather permitting).

b. Caliche from unused portions of the drill pad will be removed. The original topsoil from the wellsite will returned to the location. The drill site will then be contoured to the original natural state.

5. Location and Type of Water Supply:

The Todd "23J" Federal #14 will be drilled using a combination of brine and fresh water mud systems (outlined in Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads shown in Exhibit #3. Additionally, produced salt water from lease gathering tanks may be used. No water well will be drilled on the location.

6. Source of Construction Materials:

All caliche utilized for the drilling pad and proposed access road will be obtained from a existing BLM approved pit. All roads will be constructed of 6" rolled and compacted caliche.

7. Methods of Handling Water Disposal:

A. Drill cuttings will be disposed into the reserve pit.

B. Drilling fluids will be contained in steel mud tanks. The reserve pit will contain excess drilling fluid or fluid from the well during drilling, cementing, and completion operations. The reserve pit will be an earthen pit (please refer to Exhibit 6).

C. The reserve pit will be fenced on three sides throughout drilling operations and will be totally isolated upon removal of the rotary rig. The pit will be lined using a 5-7 mil plastic to minimize loss of drilling fluids and saturation of the ground with brine water used to drill from 850' to 4400'.

D. Water produced from the well during completion operations will be disposed into a steel tank or reserve pit, if volumes prove excessive. After placing the well on production through the production facilities, all water will be collected in tanks and injected into the Todd "26F" Federal #3 disposal well or Todd "26G" Federal #2 disposal well. Produced oil will be separated into steel stock tanks until sold.

E. A portable chemical toilet will be available on the location for human waste during the drilling operations.

F. Garbage, trash and waste paper produced during drilling operations will be collected in a contained trailer and disposed at an approved landfill. All waste material will be contained to prevent scattering by the wind. All water, fluids, salt or other chemicals will be disposed in the reserve pit. No toxic waste or hazardous chemicals will be generated by this operation.

G. All waste material will be removed within 30 days after the well is either completed or abandoned. The reserve pit will be completely fenced until it has dried. At the point the reserve pit is found sufficiently dry, it will be backfilled and reclaimed as outlined by the BLM specifications. Only the portion of the drilling pad used by the production equipment (pumping unit and tank battery) will remain in use. If the well is deemed non-commercial, only a dry hole marker will remain.

8. Ancillary Facilities:

No campsite or other facilities will be constructed as a result of this well.

9. Well Site Layout:

A. The drill pad is shown on Exhibit #6. Approximate dimensions of the pad, pits and general location of the rig equipment are displayed. Top soil will be stored adjacent to the pad until reclamation efforts are undertaken. Only modest cuts will be necessary to build the pad which will be covered with 6" of compacted caliche.

B. No permanent living facilities are planned, but temporary trailers for the toolpusher, drilling foreman and mud logger may be on location throughout drilling operations.

C. The reserve pit will be lined using plastic sheeting of 5-7 mil thickness.

10. Plans for Restoration of Surface:

A. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The reserve pit area will be broken out and leveled after drying to a condition where these efforts are feasible. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography.

B. The pit lining will be buried or hauled away in order to return the location and road to their pristine nature. All pits will be filled and location leveled, weather permitting, within 120 days after abandonment.

C. The location and road will be rehabilitated as recommended by the BLM.

D. The reserve pit will be fenced on three sides throughout drilling operations. After the rotary rig is removed, the reserve pit will be fenced on the fourth side to preclude endangering wildlife. The fencing will be in place until the pit is reclaimed.

E. If the well is deemed commercially productive, the reserve pit will be restored as described in 10 (A) within 120 days subsequent to the completion date. Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.

11. Surface Ownership:

The wellsite is owned by the Bureau of Land Management.

Road routes have been approved and the surface location will be restored as directed by the BLM.

12. Other Information:

A. The area surrounding the well site is grassland. The top soil is very sandy in nature. The vegetation is moderately sparse with native prairie grass, sagebrush, yucca and miscellaneous weeds.

B. There is no permanent or live water in the general proximity of the location.

C. A Cultural Resources Examination will be completed by New Mexico Archaeological Services and will be forwarded to the Carlsbad, New Mexico BLM office.

13. Lessees's and Operator's Representative:

The Devon Energy Corporation representatives responsible for assuring compliance of the surface use plan are:

Chuck Horsman District Engineer	Dan Talley Production Foreman
Devon Energy Corporation 1500 Mid-America Tower 20 North Broadway Oklahoma City, Oklahoma 73102	Devon Energy Corporation 422 West Main Suite F Artesia, New Mexico 88210
Phone: (405) 235-3611 (Office) (405) 348-5964 (Home)	 (505) 748-3371 (Office) (505) 746-3671 (Home)

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access road; that I am familiar with the conditions that presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Devon Energy Corporation (Nevada) and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date: 1-4-93 Signed: Charles W. Horsman

Charles W. Horsman
District Engineer

EXHIBIT #1
Todd Federal Area
Eddy County, New Mexic

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3,000 psi Working Pressure

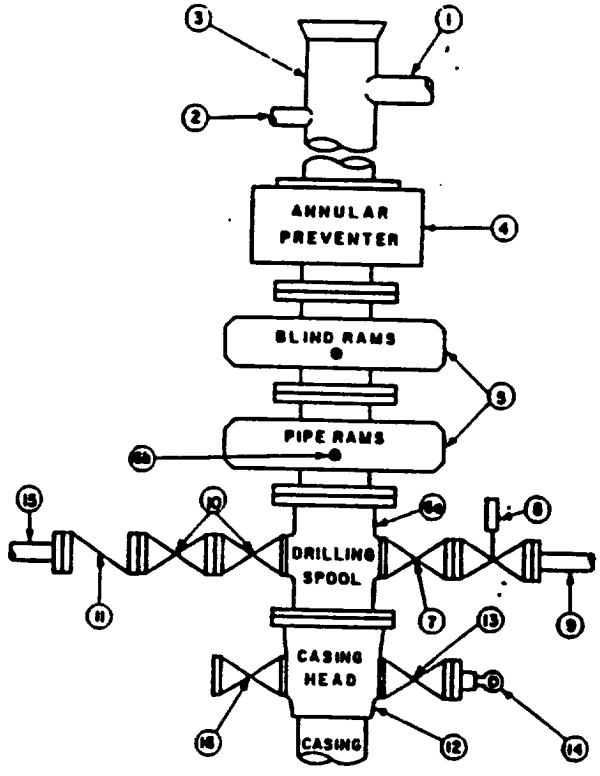
3 MWP

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		
	—or—		
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above.)		
7	Valve Gate ☐ Plug ☐	3-1/8"	
8	Gate valve—power operated	3-1/8"	
9	Line to choke manifold		3"
10	Valves Gate ☐ Plug ☐	2-1/16"	
11	Check valve	2-1/16"	
12	Casing head		
13	Valve Gate ☐ Plug ☐	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"	

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 prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
6. Kelly saver-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 for 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.

Attachment to Exhibit #1

NOTES REGARDING BLOWOUT PREVENTORS
Todd "23J" Federal #14
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 BOPE 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 W.P. 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.

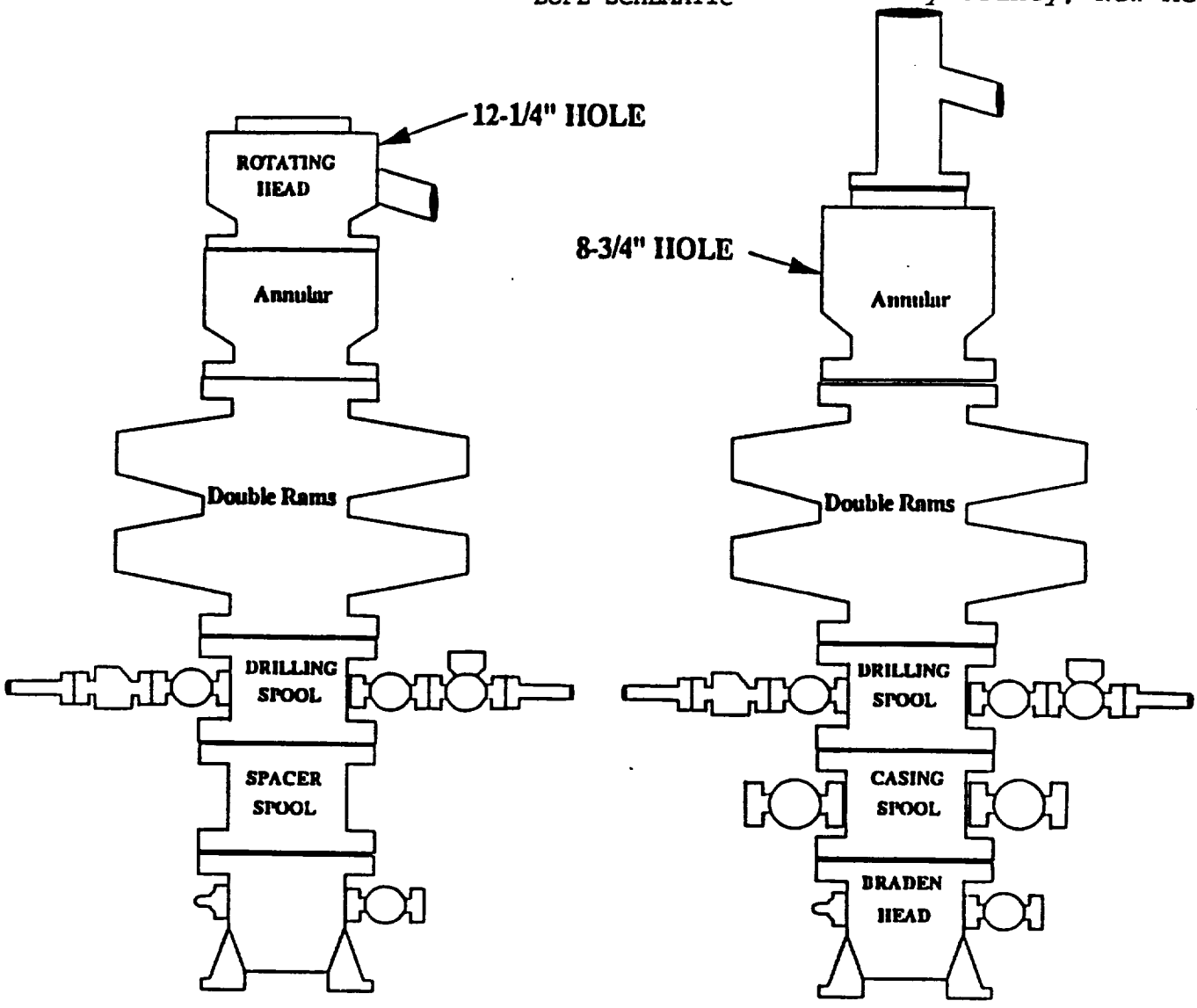
9. Hand wheels and wrenches will be properly installed and tested for safe operation.

10. Hydraulic floor control for blowout preventor will be located as near in proximity to driller's controls as possible.

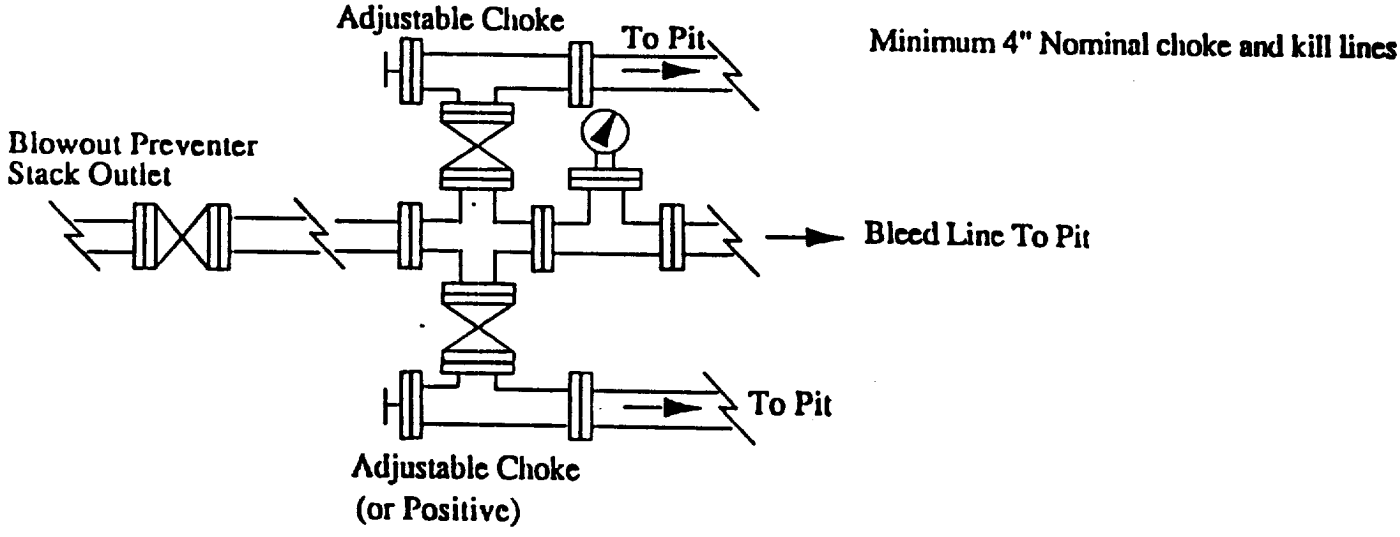
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

BOPE SCHEMATIC

Todd Federal Area
Eddy County, New Mexic



Choke Manifold Requirement (3000 psi WP)



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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	Lease	Well No.
DEVON ENERGY	TODD "23J" FEDERAL	14

Unit Letter	Section	Township	Range	County
J	23	23 SOUTH	31 EAST NMPM	EDDY

Actual Footage Location of Well:
2077 feet from the SOUTH line and 1600 feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3458.2'	Delaware	Ingle Wells Delaware	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

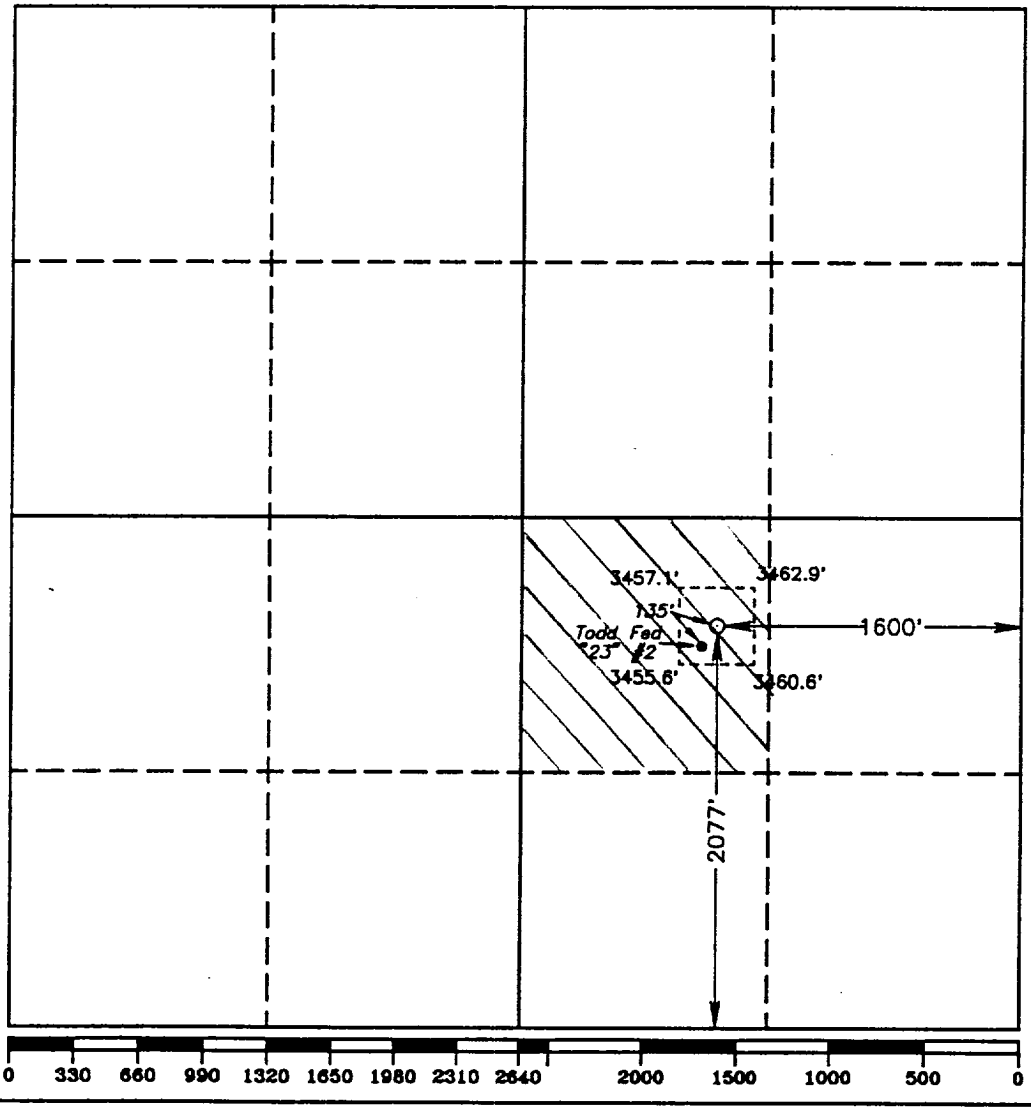
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☐ Yes ☐ No If answer is "yes" type of consolidation _____

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary. _____

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Printed Name
Charles W. Horsman

Position
District Engineer

Company Devon Energy Corporation (Nevada)

Date
December 21, 1992

SURVEYOR CERTIFICATION

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 supervison, and that the same is true and correct to the best of my knowledge and belief.

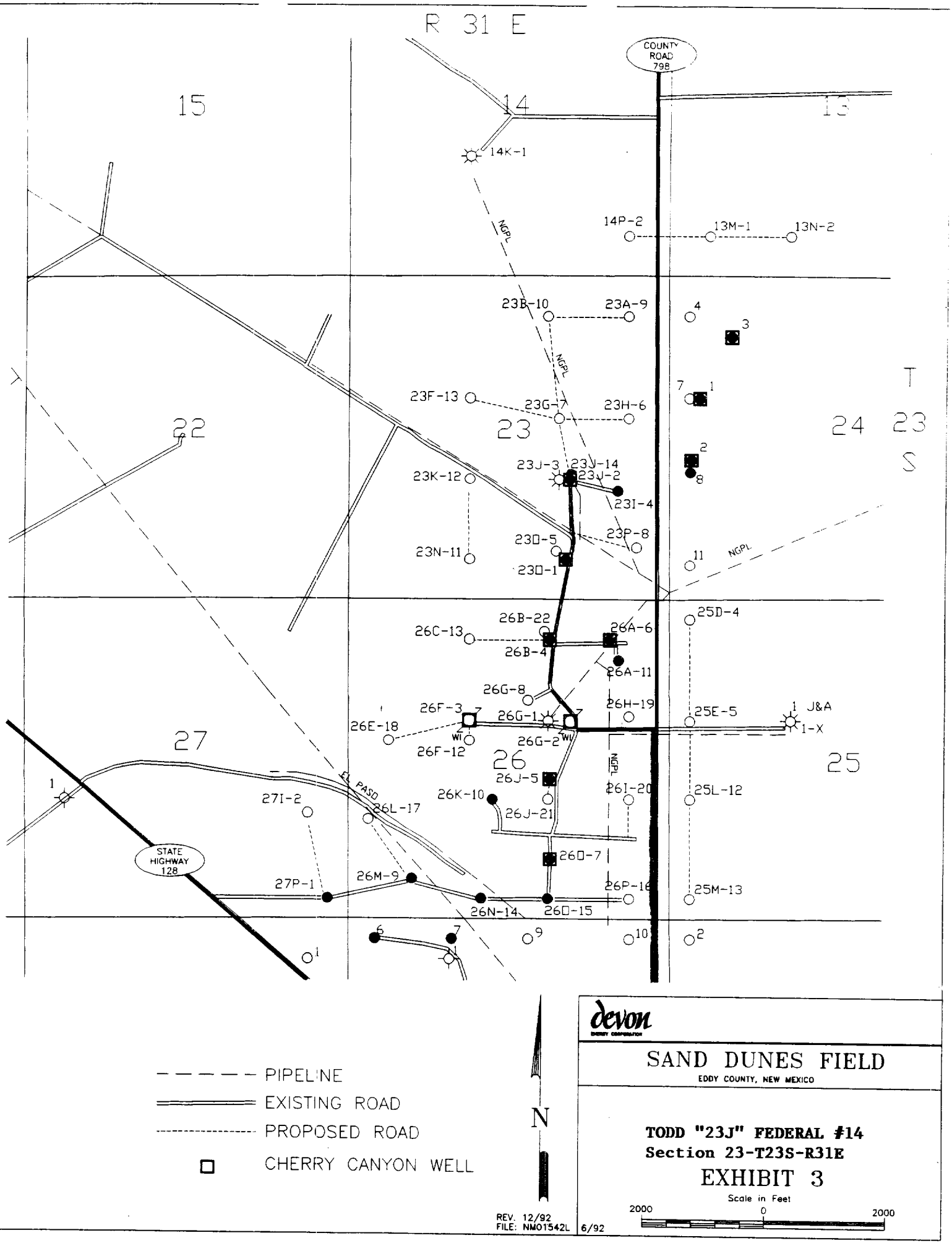
Date Surveyed
NOVEMBER 30, 1992

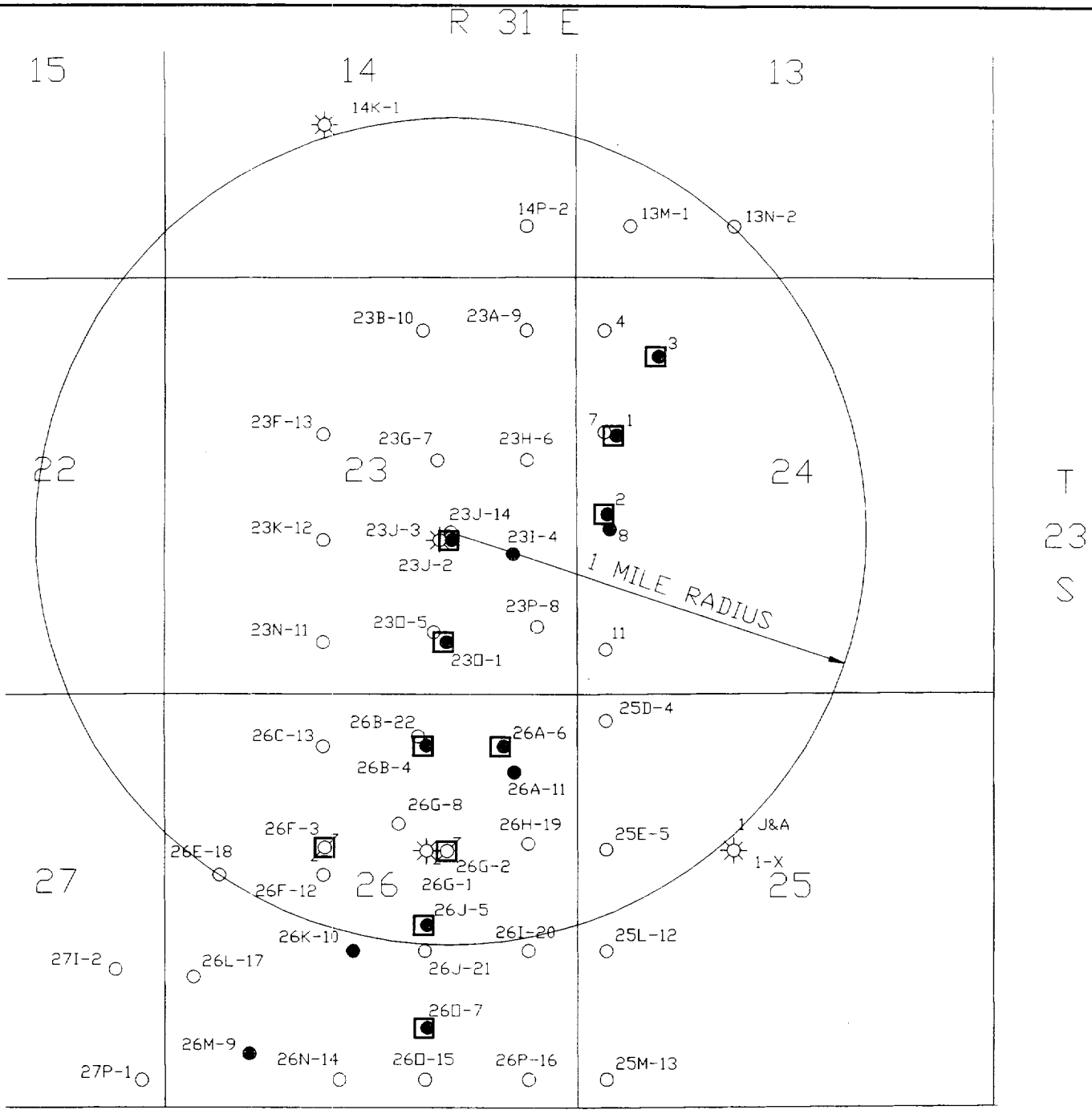
Signature & Seal of Professional Surveyor

GARY L. JONES NEW MEXICO 7977 REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate No. JOHN W. WEST. 676
RONALD J. EIDSON. 3239
GARY L. JONES. 7977

92-11-1838


R 31 E
T 23 S
15
14
13
22
23
24
25
26
27
COUNTY ROAD 798
14K-1
14P-2
13M-1
13N-2
23B-10
23A-9
23F-13
23G-7
23H-6
23J-3
23J-14
23J-2
23I-4
23K-12
23N-11
23O-5
23O-1
23P-8
NGPL
26B-22
26C-13
26A-6
26B-4
26A-11
26G-8
26F-3
26G-1
26G-2
26E-18
26F-12
26H-19
25D-4
25E-5
1 J&A
1-X
26J-5
26K-10
26J-21
26I-20
25L-12
26O-7
26P-16
25M-13
26N-14
26O-15
27I-2
26L-17
EL PASO
STATE HIGHWAY 128
27P-1
26M-9
PIPELINE
EXISTING ROAD
PROPOSED ROAD
CHERRY CANYON WELL
N
REV. 12/92
FILE: NM01542L
6/92
devon
SAND DUNES FIELD
EDDY COUNTY, NEW MEXICO
TODD "23J" FEDERAL #14
Section 23-T23S-R31E
EXHIBIT 3
Scale in Feet
2000
0
2000



☐ CHERRY CANYON WELL

N

devon
ENERGY CORPORATION

SAND DUNES FIELD

EDDY COUNTY, NEW MEXICO

WELLS WITHIN 1 MILE RADIUS

TODD-23J FED-14

EXHIBIT 4

Scale in Feet

2000 0 2000

File: 23J-14 6/92

Attachment to Exhibit #4

STATUS OF WELLS WITHIN ONE MILE RADIUS
Todd "23J" Federal #14
Section 23-T23S-R31E
Eddy County, New Mexico
January 1993

Sec. 23-T23S-R31E

Devon Energy Corp

Todd "23O" Federal #1	660' FSL & 1650' FEL	Delaware Oil Well
Todd "23J" Federal #2	1980' FSL & 1650' FEL	Delaware Oil Well
Todd "23J" Federal #3	1980' FSL & 1800' FEL	Atk/Mrw Gas Well
Todd "23I" Federal #4	900' FSL & 1800' FEL	Delaware Oil Well

Sec. 24-T23S-R31E

Amax Petroleum

Federal 24-1	3300' FSL & 4813' FEL	Delaware Oil Well
Federal 24-2	2310' FSL & 4950' FEL	Delaware Oil Well
Federal 24-3	4290' FSL & 4290' FEL	Delaware Oil Well

Pogo Producing

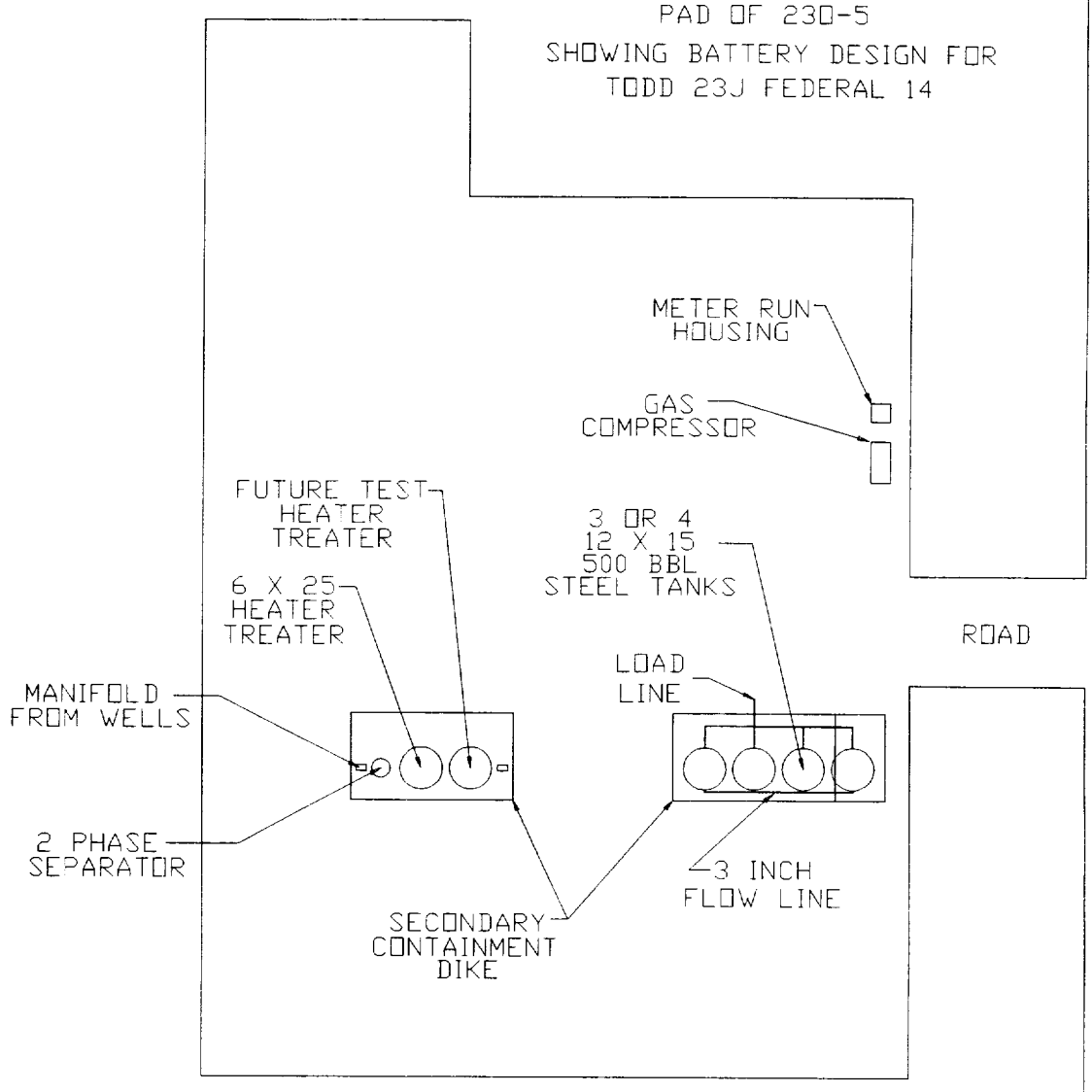
Amax Federal 24-8	2160' FSL & 330' FWL	Delaware Oil Well

Sec. 26-T23S-R31E

Devon Energy Corp

Todd "26G" Federal #1	3300' FSL & 1980' FEL	Atoka Gas Well
Todd "26G" Federal #2	3300' FSL & 1650' FEL	Delw Wtr Inj Well
Todd "26F" Federal #3	3300' FSL & 3300' FEL	Delw Wtr Inj Well
Todd "26B" Federal #4	4620' FSL & 1980' FEL	Delaware Oil Well
Todd "26J" Federal #5	2310' FSL & 1980' FEL	Delaware Oil Well
Todd "26A" Federal #6	4620' FSL & 990' FEL	Delaware Oil Well
Todd "26A" Federal #11	990' FNL & 890' FEL	Delaware Oil Well

PAD OF 23O-5
SHOWING BATTERY DESIGN FOR
TODD 23J FEDERAL 14



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FILE: 23J-14

devon
ENERGY CORPORATION

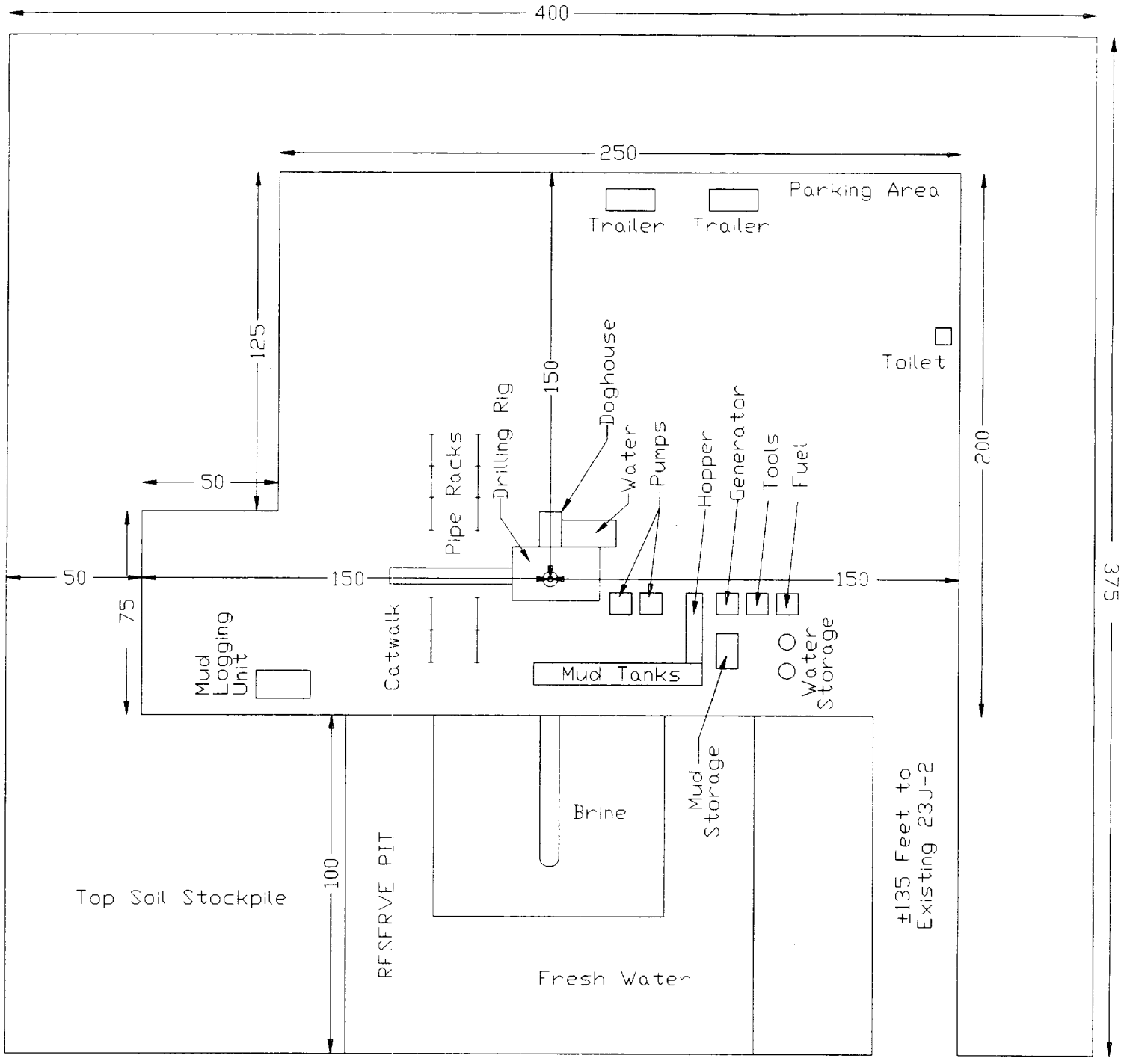
SAND DUNES FIELD
EDDY COUNTY, NEW MEXICO

PRODUCTION FACILITIES LAYOUT FOR
TODD-23J FED-14

EXHIBIT 5

Scale in Feet
25 0 25 50 75 100

12/92



ELEV 3455.6

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File: 23J-14

devon ENERGY CORPORATION

SAND DUNES FIELD

EDDY COUNTY, NEW MEXICO

DRILLING RIG LAYOUT AND ELEVATIONS

TODD-23J FED-14

EXHIBIT 6

Scale in Feet

25 0 25 50 75 100

12/92

DEVON ENERGY

Operator: DEVON ENERGY CORP	Well Name: TODD FEDERAL
Project ID:	Location:

Design Parameters:

Mud weight (9.20 ppg) : 0.478 psi/ft
Shut in surface pressure : 765 psi
Internal gradient (burst) : 0.100 psi/ft
Annular gradient (burst) : 0.000 psi/ft
Tensile load is determined using air weight
Service rating is "Sweet"

Design Factors:

Collapse : 1.125
Burst : 1.00
8 Round : 1.80 (J)
Buttress : 1.60 (J)
Body Yield : 1.50 (B)
Overpull : 0 lbs.

	Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	850	13-3/8	48.00	WC-40	ST&C	850	12.559	

	Collapse Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	S.F.	Tension Load (kips)	Tension Strgth (kips)	S.F.
1	406	740	1.823	850	1700	2.00	40.80	308	7.55 J

Prepared by : C. W. HORSMAN, Oklahoma City, OK
Date : 08-17-1992
Remarks :

Minimum segment length for the 850 foot well is 800 feet.

Surface string:

Next string will set at 4,400 ft. with 10.00 ppg mud (pore pressure of 2,286 psi.) The frac gradient of 1.000 at the casing seat results in an injection pressure of 850 psi. Effective BHP (for burst) is 850 psi.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.

Costs for this design are based on a 1990 pricing model. (Version 1.0G)

DEVON ENERGY

Operator: DEVON ENERGY CORP	Well Name: TODD FEDERAL
Project ID:	Location:

Design Parameters:

Mud weight (9.80 ppg) : 0.509 psi/ft
Shut in surface pressure : 3596 psi
Internal gradient (burst) : 0.100 psi/ft
Annular gradient (burst) : 0.000 psi/ft
Tensile load is determined using air weight
Service rating is "Sweet"

Design Factors:

Collapse : 1.125
Burst : 1.00
8 Round : 1.80 (J)
Buttress : 1.60 (J)
Body Yield : 1.50 (B)
Overpull : 0 lbs.

	Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	4,000	8-5/8"	32.00	WC-50	ST&C	4,000	7.796	
2	400	8-5/8"	32.00	J-55	ST&C	4,400	7.875	

	Collapse Load (psi)	Collapse Strgth (psi)	Collapse S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	Burst S.F.	Tension Load (kips)	Tension Strgth (kips)	Tension S.F.
1	2036	2421	1.189	3596	3600	1.00	140.80	341	2.42 J
2	2240	2530	1.129	3636	3930	1.08	12.80	372	29.06 J

Prepared by : C. W. HORSMAN, Oklahoma City, OK
Date : 08-17-1992
Remarks :

Minimum segment length for the 4,400 foot well is 800 feet.
Surface/Intermediate string:
Next string will set at 8,400 ft. with 9.25 ppg mud (pore pressure of 4,036 psi.) The frac gradient of 1.000 at the casing seat results in an injection pressure of 4,400 psi. Effective BHP (for burst) is 3,636 psi.
The minimum specified drift diameter is 7.875 in.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.

Costs for this design are based on a 1990 pricing model. (Version 1.0G)

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

JUN 2 0 1989
Land

June 14, 1989

Devon Energy Corporation
1500 Mid-America Tower
20 North Broadway
Oklahoma City, Oklahoma 73102-8260

Attention: Charlene Newkirk

Re: $50,000 Blanket Plugging Bond
Devon Energy Corporation, Principal
Bond No. 56-0130-11003-82-1

Dear Ms. Newkirk:

The Oil Conservation Division hereby acknowledges receipt of and approves the rider to the above-captioned bond changing the name of principal as follows:

DEVON ENERGY CORPORATION (NEVADA)

Sincerely,

WILLIAM J. LEMAY,
Director

dr/

cc: Oil Conservation Division
Hobbs, Artesia, Aztec

DEVON
ENERGY
CORPORATION

1500 Mid-America Tower
20 North Broadway
Oklahoma City, Oklahoma 73102-8260

405/235-3611
TWX 910-831-3277

May 5, 1989

State of New Mexico
Oil & Gas Conservation Commission
State Capitol Building
Santa Fe, NM 87504

Re: Blanket Plugging Bond
State of New Mexico
No. 56-0130-11003-87

Gentlemen:

Devon Energy Corporation formerly Devon Corporation has changed its name to Devon Energy Corporation (Nevada). In this regard, enclosed is a Rider for the referenced bond to include both company names. Please amend your records.

Very truly yours,

Charlene

Charlene Newkirk
Lease Records Supervisor

encls

cc: Carolyn Wilson
McEldowney McWilliams

R I D E R

To be attached to and become a part of Bond No. 56-0130-11003-87-1 issued by the United States Fidelity and Guaranty Company, on behalf of Devon Energy Corporation as Principal, and in favor of State of New Mexico as Obligee, in the penalty of Fifty thousand and no/100 - --- - - - - Dollars ($ 50,000.00) for Blanket plugging bond

It is hereby understood and agreed that effective on the February 10, 1989 the Principal in this bond shall be Devon Energy Corporation (Nevada)

However, the liability of the Surety in the aggregate to the Obligee for any and all defaults of the Principal, whether occuring before or after or partly before and partly after this rider become effective, shall in no event exceed the penalty stated in the bond.

Signed, Sealed, and Dated this 3rd day of March 1989.

Devon Energy Corporation (Nevada)

ATTEST:

Asst. Secretary

By: MARVIN C. LUNDE, JR.
Vice President

UNITED STATES FIDELITY AND GUARANTY COMPANY

By: _____
Marcia C. Brejda Attorney-in-fact