Form 3160-3 (December 1990)

UNI J STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN ... JCAT

811 S. 1ST ST. ARTESIA, NM 88210-2834 Form approved.

(See other instructions on reverse side)

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3. ADDRESS AND TE	20 N. BROADWAY	, SUITE 1500,	OKC, OK 73	3102 (405) 23	5-3611		30-015-	3 883	CAT
4. LOCATION OF WEL	L (Report location clearly	and in accordance	e with any State	requirements) ¹		:			Bone Spring
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TO NEAREST WELL, DRI OR APPLIED FOR, ON TO	ILLING, COMPLETED. IIS LEASE, FT.	12,00	or 8750'	4	CO ARTE	211		Rotary	
21.ELEVATIONS (Show wheth	er DF, RT, GR, etc.)			15)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		22. A	PPROX. DATE WORK	WILL START*
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12 1/4"	J-55 8.45/8"	3	2 40#	WITN	ESS	12 9001	07 15	Stg #1: 250 sx C	
7 7/8"	1.80 51/2"	15.5	E 17# & 20#		DV	المن بين 5-/- Tool +/-	87.50	Stg #2: 420 sx	
wellbore will be plug and attachments. Drilling Program Surface Use and Ope Exhibits #1 = Blowo Exhibits #2 = Locatio Exhibits #3 = Road MEXHIBITER EXHIBITER EXHIBIT	ut Prevention Equipment n and Elevation Plat Map and Topo Map Vithin 1 Mile Radius ction Facilities Plat Rig Layout Design ance Report SCRIBE PROPOSED Pleepen directionally, give	er Federal regula	posal is to dee subsurface loc	The undersig and restrictio portions there Lease #: NM Legal Descrip Bond Covera BLM Bond #	med accepts a ns concerning eof, as descril -NM040544 ption: All of ge: Nationwe: CO-1104	Ill applicable goperations bed below 4 Section 23-ide APP GEN SPE	e terms, cos conducte T23S-R3 ROVAI	NATER BAS onditions, stipulated on the leased land I.E. Eddy Cnty, NM L SUBJECT REQUIREME STIPULATION oposed new productive blowout prevent	ons d or: TO ENTS AND NS ATTACHED stive zone. If ter program, if any.
SIGNED CO	ndace R.L	Irahan	TITLE	Candace R. Engineering	Graham <u>Technician</u>	D A	TE Ja	nuary 29, 1999	
• •	eral or State office use)								
PERMIT NO.				A	PPROVAL	DATE _		al- Al- a Har-4 4	and not apprellant
Application approval does thereon.	not warrant or certify that t	he applicant holds i	egal or equitable	title to those righ	its in the subjec	r lease which	would enti	ue the applicant to co	anact character
CONDITIONS OF AP	PROVAL, IF ANY:			STATI	E DIRECT	UE		7	/ ,
APPROVED BY $\sqrt{0}$	RIG. SGD.) M. J	CHÁVEZ	TITLE	STATI	se Side		DA	APPROVE	OFORT YEAR

C 1705 / 10 14V0 (1994 C 1706 / 10 14 17 (1994) C 1707 / 10 1707 (1994)

received

FB177

ROSWELL MAN

Form C-102 Revised 02-10-94

Instructions on back

Submit to the Appropriate District Office State Lease – 4 copies Fee Lease – 3 copies

DISTRICT II P. O. Drower DD Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410

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

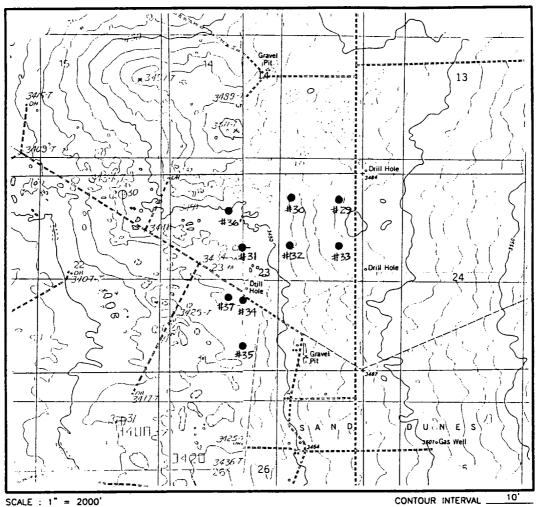
AMENDED REPORT

JOB #62800 / 47 SW / V.H.B.

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LOC...ON & ELEVATION VERIFICATIONAP



SCALE : 1 = 2000

SECTION _____ 23 ___ TWP ___ 23-S ___ RGE ___ 31-E

SURVEY NEW MEXICO PRINCIPAL MERIDIAN

COUNTY EDDY STATE NM

OPERATOR DEVON ENERGY CORP. (NEVADA)

U.S.G.S. TOPOGRAPHIC MAP

LOS MEDANOS & BOOTLEG RIDGE

NAME	LOCATION	ELEVATION LAT.	LONG.
TODD "23A" FED. #2	710' FNL & 660' FEL	3486' N 32'17'42.8"	W 103'44'31.8"
TODD "23B" FED. #.	660' FNL & 1930' FEL	3464' 'N 32 <u>17'43.3"</u>	W 103'44'46.6"
TODD "23F" FED. #	1980' FNL & 2030' FWL	3441' N 32'17'30.3"	W 103'45'02.0"
TODD "23G" FED. #.	2 1930' FNL & 1980' FEL	3460' N 32'17'30.8"	W 103'44'47.2"
TODD "23H" FED. #	1980' FNL & 660' FEL	3486' N 32°17'30.2"	W 103'44'31.6"
TODD "23K" FED. #	1880' FSL & 2030' FWL	3440' N 32°17'16.2"	W 103'45'02.0"
TODO "23N" FED. #	5 660' FSL & 2030' FWL	3429' N 32'17'04.2"	W 103'45'02.0"
TODD "23C" FED. #	1000' FNL & 1650' FWL	3449' N 32"17'40.0"	
TODO "23K" FED. #.	7 1980' FSL & 1650' FWL	3434' N 32°18'12.2"	W 103'45'06.4"

These locations have been very carefully staked on the ground according to the best afficial survey records, maps, and other data available to us.

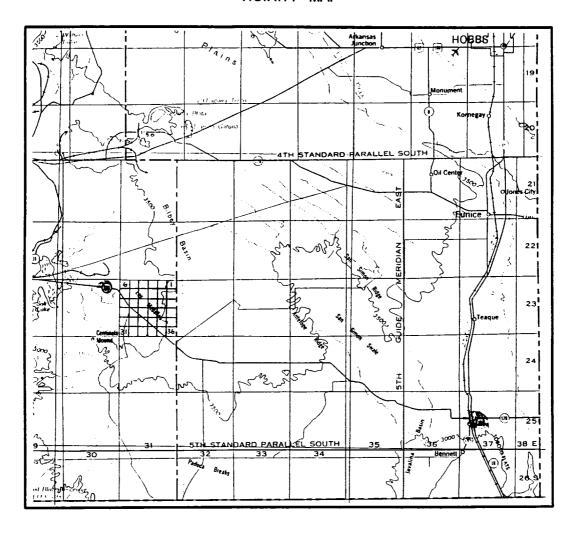
Review this plot and notify us immediately of any possible discrepancy.

TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

1307 N. HOBART PAMPA, TX. 79065 (800) 658-6382 6709 N. CLASSEN BLVD. OKLAHOMA CITY, OK. 73116 (800) 654-3219 2903 N. BIG SPRING MIDLAND, TX. 79705 (800) 767-1653

VICINITY MAP



SECTION11	, 13, 14, 15, 22 &	23 TWP 2	3-S RGE 31-E
SURVEY	NEW MEXICO PR	INCIPAL MERIC	IAN
COLINTY	EDDY	STATE	NM

OPERATOR DEVON ENERGY CORPORATION
LEASE TODD & BARCLAY
DISTANCE & DIRECTIONFROM THE JCT. OF S.H. 128 & CO. RD. 798, 34.0 MILES WEST OF JAL, GO NORTH 2.1 MILES ON CO. RD. 798 TO THE SOUTHEAST CORNER OF SECTION 23.



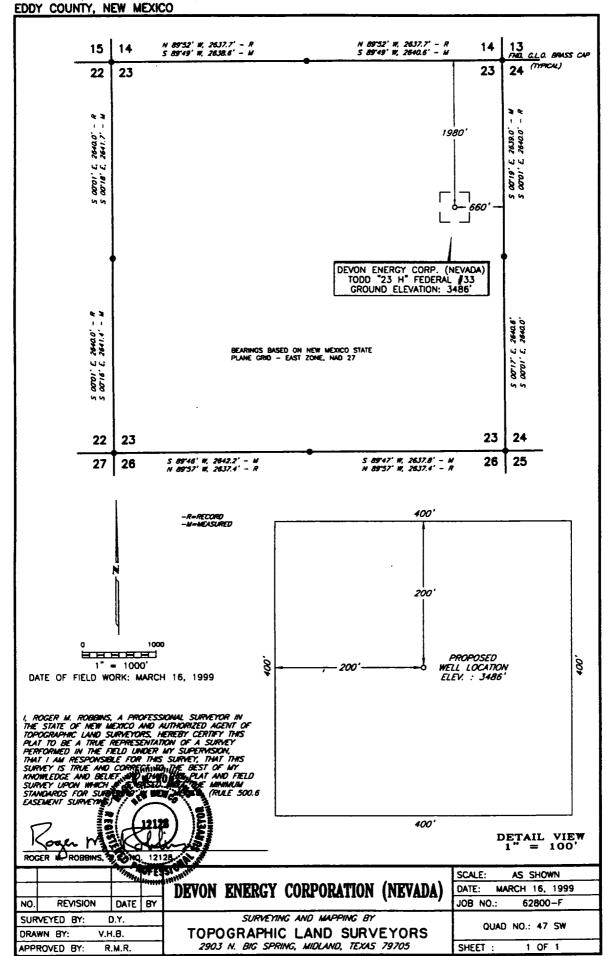
This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

Review this plat and natify us immediately of any

possible discrepancy.

TOPOGRAPHIC LAND SURVEYORS

Surveying & Mopping for the Oil & Gas Industry



DRILLING PROGRAM

Attached to Form 3160-3
Devon Energy Corporation (Nevada)
TODD "23H" FEDERAL #33
1980' FNL & 660' FEL
Section 23-T23S-R31E, Unit H
Eddy County, New Mexico

1. Geologic Name of Surface Formation

Permian

2. Estimated Tops of Important Geologic Markers

Rustler	800'
Top of Salt	1100'
Base of Salt	3900'
Bell Canyon	4400'
Cherry Canyon	5600'
Brushy Canyon	7000'
Bone Spring Lime	8300'
Third Bone Spring	10700'
Wolfcamp	11600'
Total Depth	12000'

3. Estimated Depths of Possible Fresh Water-, Oil-, or Gas-Bearing Formations

Upper Permian Sands	above 800'	fresh water
Delaware (Bell Canyon)	4400'	oil
Delaware (Cherry Canyon)	6000'	oil
Delaware (Brushy Canyon)	8000'	oil
Third Bone Spring	10700'	oil
Wolfcamp	11600'	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. The Potash and Salt intervals will be protected by setting 9 5/8" casing at 4400' and circulating cement to surface. The lower producing intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement above the base of the 9 5/8" casing.

4. Casing Program

Hole Size	<u>Interval</u>	Casing OD	<u>Weight</u>	<u>Grade</u>	<u>Type</u>
30"	0-40'	20"		Conductor	0.30" wall
17 1/2"	0-850'	13 3/8"	48#	H-40	ST&C, new R-3
12 1/4"	0-4400'	9 5/8"	40#	J-55	ST&C, new R-3
7 7/8"	0'-TD (12,000'±)	5 1/2"	17# & 20#	L-80	LT&C, new R-3

Cementing Program

20" Conductor Casing	Cement with Ready-mix to surface.
13 3/8" Surface Casing	Cement to surface using 500 sx Poz (35% Poz, 65% Class C) with 6% Bentonite, 2% CaCl ₂ and 1/4 lb/sx Cellophane flakes + 200 sx Class C with 2% CaCl ₂ and 1/4 lb/sx Cellophane flakes.
9 5/8" Intermediate Casing	Cement to surface using 1400 sx Poz (35% Poz, 65% Class C) with 6% Bentonite, 3% NaCl ₂ and 1/4 lb/sx Cellophane flakes + 200 sx Class C with 2% CaCl ₂ and 1/4 lb/sx Cellophane flakes.
5 1/2" Production Casing with DV tool at ±5500'	Cement 1 st stage with 250 sx Class H with 12lbs/sx BA-0, 2#/sx NaCl ₂ , 0.5% FL-52, 0.25% CD-32 and 1/4 lb/sx Cellophane flakes. Cement 2 nd stage with 420 sks Class C with 4% Bentonite, 6.5% NaCl ₂ and 1/4 lb/sx Cellophane flakes.

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach 450'± above the 9 5/8" casing seat at 4400'.

5. <u>Minimum Specifications for Pressure Control</u>

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a (3M system) double ram type (2000 psi WP) preventer and a bag-type (Hydril) preventer (2000 psi WP). Both units will be hydraulically operated and the ram type preventer 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 1200 psi before drilling

out the 13 3/8" casing shoe (70% of 48# H-40 casing). Prior to drilling out the 9 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.

<u>Depth</u>	<u>Type</u>	Weight (ppg)	Viscosity (1/sec)	Water Loss (cc/30 mins)
0-850'	Fresh water	8.8	34-36	No control
850-4400'	Brine water	10.0	28	No control
4400'-TD	Brine water polymer	10.0	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 (Compliance Package) will be in operation from drilling out the 9 5/8" casing shoe until the 5 1/2" casing is cemented.

8. Logging, Testing and Coring Program

- A. Drill stem tests will be based on geological sample shows.
- B. The open hole wireline logging program will be as follows.

TD to intermediate casing: Induction / Gamma Ray / Neutron / Density Log.

TD to surface: Neutron with Gamma Ray.

- C. Rotary sidewall cores will be based on geological sample shows.
- D. Additional testing will be initiated subsequent to setting the 5 1/2" production casing. Specific intervals will be targeted based on geological sample shows, drill stem tests log evaluation and core analysis.

9. Abnormal Pressures, Temperatures and Potential-Hazards

No abnormal pressures or temperatures are foreseen. The anticipated bottom hole temperature at total depth is approximately 175 degrees and maximum bottom hole pressure is approximately 3500 psig. No hydrogen sulfide gas has been reported or is known to exist at these depths in this area. No major lost circulation intervals have been encountered in adjacent wells.

10. Anticipated Starting Date and Duration of Operations

A Cultural Resources Examination will be completed by Don Clifton Archaeological Consultant and submitted to the BLM. Road and location preparation will not be undertaken until approval has been received from the BLM. If approved, the anticipated spud date for the well will be in the first quarter, 1999. The drilling operation should require approximately 21 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 (Nevada)
TODD "23H" FEDERAL #33
1980' FNL & 660' FEL
Section 23-T23S-R31E, Unit H
Eddy County, New Mexico

1. Existing Roads

- A. This location will be staked by John West Surveying, Co. of Hobbs, New Mexico and the well site and elevation plat for the proposed TODD "23H" FEDERAL #33 will be submitted as Exhibit #2.
- B. All roads into the location are depicted in Exhibit #3. New construction from the County road will be used to access the location. New construction will conform to the specifications outlined in item 2 below.
- C. Directions to location: Travel west-northwest from Jal, NM approximately 35 miles on State Highway 128 to County Road 798, just into Eddy County from Lea County, thence north approximately 3.4 miles on paved County Road 798. Turn west (left) to the Todd "23H" Federal #6. Turn north (right) and travel west-northwest to the proposed TODD "23H" FEDERAL #33 location.

2. Proposed Access Road

Exhibit #3 shows the existing entry road to the proposed TODD "23H" FEDERAL #33 location. If necessary any additional road construction will be as follows.

- A. The maximum width of the road will be fifteen (15) feet.
- B. It will be crowned and made of six (6) inches of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- C. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location.
- D. The average grade will be approximately 1%.
- E. No cattle guards, grates or fence cuts will be required.
- F. No turnouts are planned.

TODD "23H" FEDERAL #33 Surface Use and Operating Plan Page 2

3. Location of Existing Wells

Exhibit #4 shows all existing & proposed wells within a one-mile radius of the proposed TODD "23H" FEDERAL #33.

4. Location of Existing and/or Proposed Facilities

- A. Devon Energy Corporation (Nevada) will build the tank battery on the Todd "23G" Federal #7 location in the SW NE of Section 23.
- B. In the event the TODD "23H" FEDERAL #33 is found productive, the production equipment will be as follows.
 - 1. Exhibit #5 shows the battery facility to be utilized by the TODD "23H" FEDERAL #33. This facility may be upgraded to include one or two additional 500 barrel tanks.
 - 2. The tank battery, all connections and all lines will adhere to API standards.
 - 3. The well will be operated by means of an electric prime mover. Power poles will be set along the access road right-of-way.
- 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 top soil from the well site will be returned to the location. The drill site will then be contoured to the original natural state.

TODD "23H" FEDERAL #33 Surface Use and Operating Plan Page 3

5. Location and Type of Water Supply

The TODD "23H" FEDERAL #33 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 utilized. 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 an existing BLM approved pit or from prevailing deposits found under the location. 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 roughly 125' x 125' x 6', or smaller, in size.
- 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. 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 into 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 per 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 tool pusher, 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 well site 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 Don Clifton Archaeological Consultant, and a copy forwarded to the BLM office in Carlsbad, New Mexico.

TODD "23H" FEDERAL #33 Surface Use and Operating Plan Page 6

13. Lessee's and Operator's Representative

The Devon Energy Corporation (Nevada) representatives responsible for ensuring compliance of the surface use plan are as follows.

Walter Frank
District Engineer

Daryl Lowder Superintendent

DEVON ENERGY CORPORATION 20 North Broadway, Suite 1500 Oklahoma City, OK 73102-8260 DEVON ENERGY CORPORATION P. O. Box 250 Artesia, NM 88211-0250

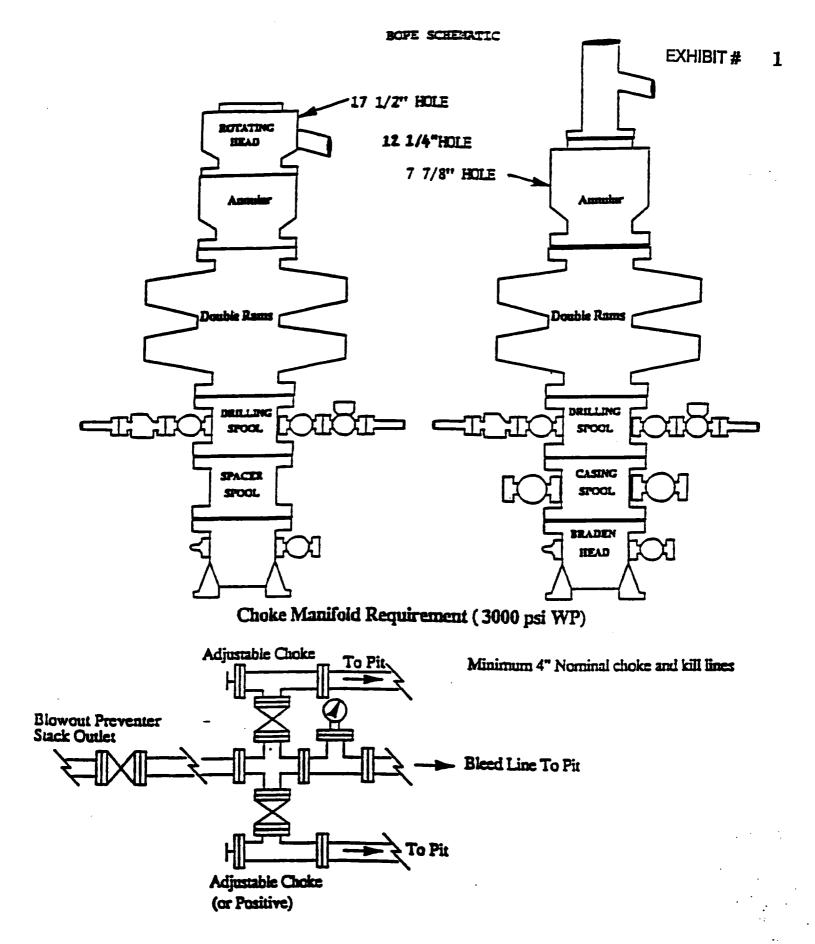
(405) 552-4595 (office) (405) 364-3504 (home) (505) 748-3371 (office) (505) 746-9280 (home)

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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.

Signed: Candace R. L. Craham Date: 01-29-1999
Candace R. Graham

Engineering Technician

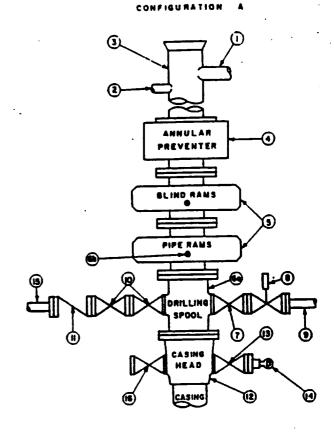


3,000 psi Working Pressure

3 MWP

STACK REQUIREMENTS

No.	Item		Mırı. 1.D.	Min. Nominal
1	Flowline			
2	Fill up line			2-
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hy operated rams	rdraulically		
6a	Dritting spool with 2" min 3" min choke line outlets	~		
6b	2" min. kill line and 3" m outlets in ram. (Alternate			
7	Valve	Gale □ Plug □	3-1/8"	
8	Gate valve—power opera	Hed	3-1/8"	
9	Line to choke manifold			3°
10	Valves	Gate C Plug C	2-1/16*	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gate 🗆 Plug 🗆	1-13/16"	
14	Pressure gauge with ne	edie valve		
15				2"



	OPTIONAL	
16 Flanged valve	1-13/16*	

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 (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.
- 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.

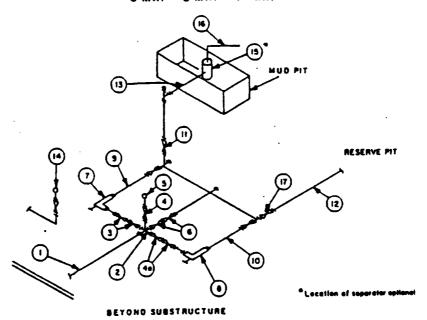
MEC TO FURNISH:

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

GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drifting 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 chore. 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.
- 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.
- S.All valves to be equipped with handwheels or handles ready for immediate use.
- 6. Chake lines must be suitably anchored.

- 7. 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.
- 9.All seamless steet 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.
- 11.Do not use kill line for routine fill-up operations.



			MINII	NUM REQU	REMENTS	5				
		3,000 MWP 5,000 MWP					10,000 MWP			
No		1.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool	1	3-	3,000		3-	5,000		3°	10,000
	Cross 3"x3"x3"x2"	† <u> </u>		3,000			5,000			
2	Cross 3.x3.x3.x3.	1								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
48	Valves(1)	2-1/16"		3,000	2-1/16"		5,000	3-1/8"		10,000
5	Pressure Gauge	T		3,000			5,000		<u> </u>	10,000
6	Valves Gate C Plug □(2)	3-1/6"		3,000	3-1/8"		5,000	3-1/8"		10,000
 	Adjustable Choke(3)	2-		3,000	2*		5,000	2-		10,000
-	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		5.	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			3.	1,000		3-	1,000		3*	2,000
13			3.	1,000		3.	1,000		3.	2,000
14	Remote reading compound			3,000			5,000	•		10,000
15			2'x5'			2'x5'			2'x5'	<u> </u>
16			4*	1,000		4*	1,000		4.	2,000
17	Gate 🗆	3-1/6"		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 10ML
- (3) Remote operated hydraulic chake required on 5,000 psi and 10,000 psi for drilling.

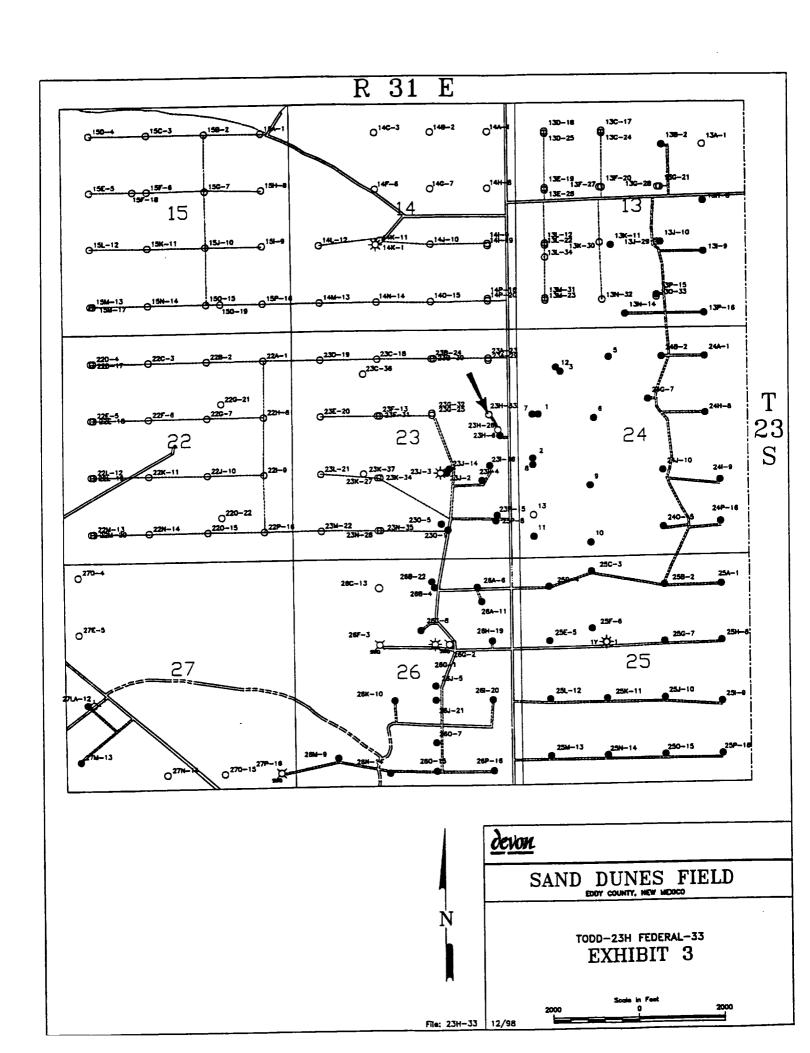
EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

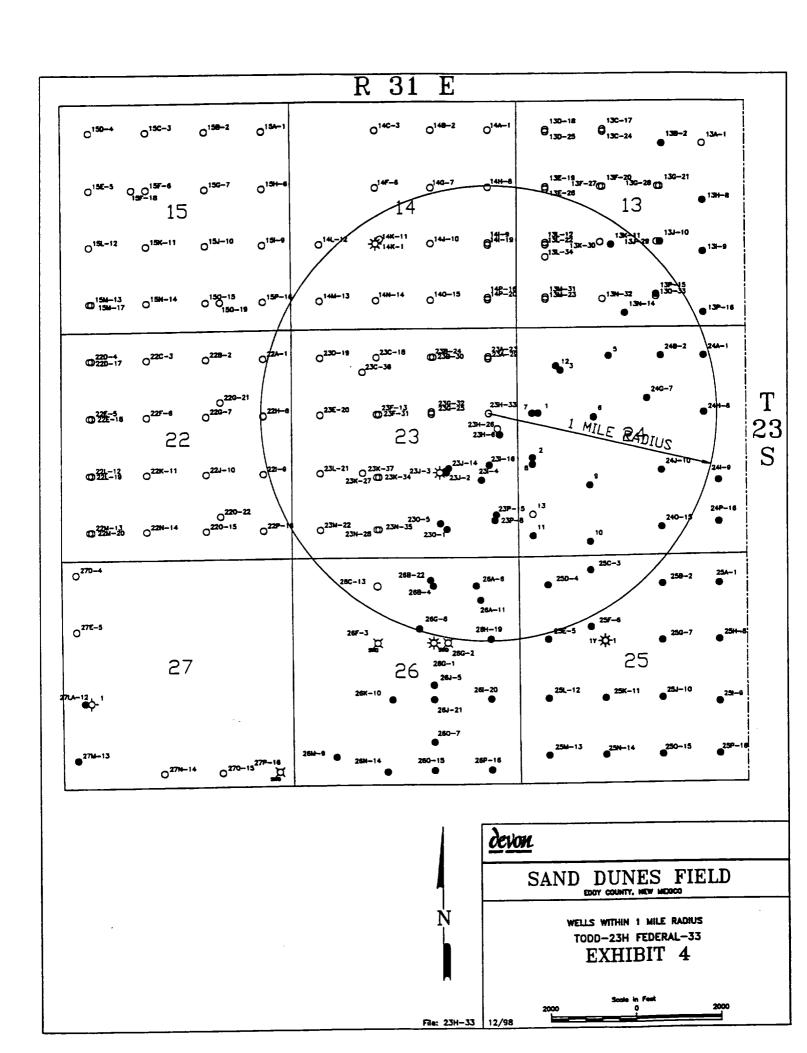
- 1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 68 or 68X and ring gaskets shall be API RX or BX. Use only 8X for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten 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 bull plugged tees.
- 7. Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well.

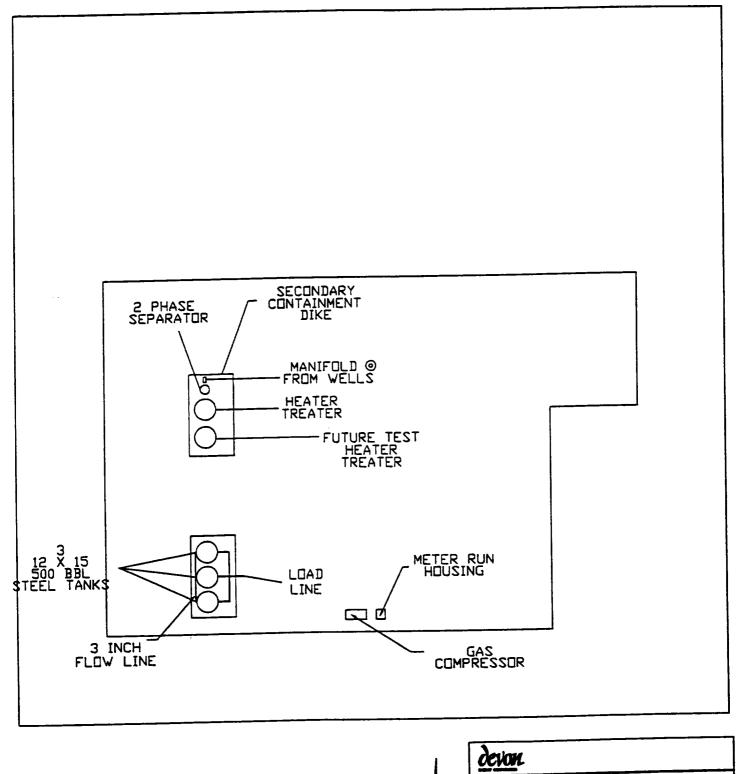
Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS

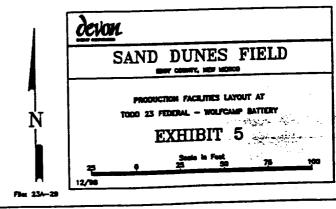
Devon Energy Corporation (Nevada)
TODD "23H" FEDERAL #33
1980' FNL & 660' FEL
Section 23-T23S-R31E, Unit H
Eddy County, New Mexico

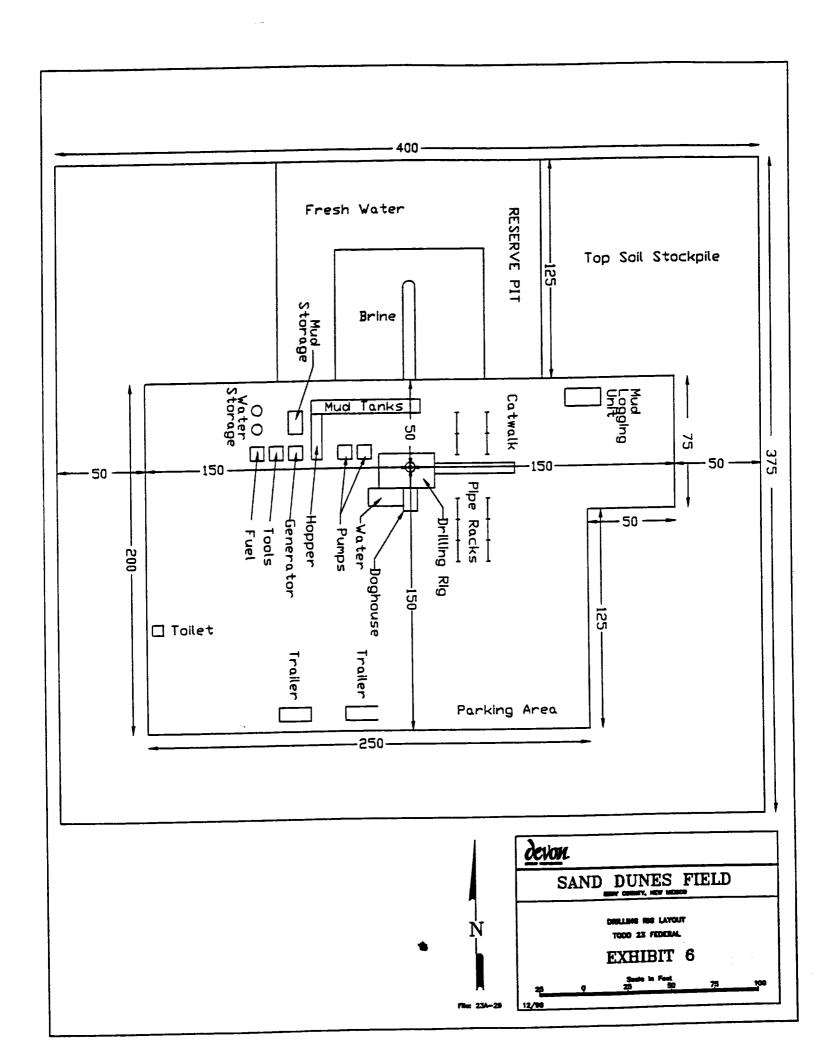
- 1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventer and all associated fittings will be in operable condition to withstand a 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.











Well name: Typical Well Surface
Operator: Devon Energy Corporation (Nevada)

String type: Surface

Location: T23S, R31E, Eddy County, New Mexico

Minimum design factors: Environment Design parameters: Collapse: H2S considered? Na Collegee Surface temperature: 75 °F 8,500 ppg Design factor 1.125 Mud weight Bottom hole temperature: 82 °F Design is based on evacuated pipe. 0.80 °F/100ft Temperature gradient 850 ft Minimum section length: 2.559 in Minimum Drift: Burst Design factor 1.00 Burst Max anticipated surface 468 psi pressure: Non-directional string. 0.021 psi/ft Tension: Internal gradient 8 Round STC: 1.80 (J) 486 psi Calculated BHP 8 Round LTC: 1.80 (J) 1.60 (J) **Buttress:** 8.50 ppg Annular backup: Premium: 1.50 (J) Body yield: 1.50 (B) Re subsequent strings: 4,400 ft Next setting depth: 10.000 ppg Next mud weight: Tension is based on budyed weight. 2,286 psi Neutral point: 744 ft Next setting BHP: 11.000 ppg Fracture mud wt 850 ft Fracture depth: 486 osi Injection pressure Drift Internal End True Vert Measured Nominal Run Segment Capacity Diameter Grade Finish Depth Death Weight Length Size Seq (ft²) (ini) (lbs/ft) (ft) (ft) (in) (11) 79.8 850 12.59 H-40 ST&C 850 13.375 48,00 850 1 Tension Tension Burst Burst Burst Tension Collapse Collapse Collapse Run Strength Design Load Load Strength Design Design Load Strength Seq **Factor** (Kips) (psi) Factor (psi) Factor (Kips) (psi) (psi) 9.01 J 468 36 322 1.97 1730 3.70 740 375 1

Prepared W. M. Frank by: Devon Energy Phone: (405) 552-4595 FAX: (405) 552-4621 Date: November 24,1998 Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 850 ft, a mud weight of 8.5 ppg. The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

9.500 ppg

5,922 psi

10.000 ppg 4,400 ft

2,286 psi

Next mud weight:

Next setting BHP:

Fracture mud wt.

Fracture depth: Injection pressure

Typical Well Intermediate Well name:

Operator:

Devon Energy Corporation (Nevada)

Intermediate String type:

T23S, R31E, Eddy County, New Mexico Location:

Environment Minimum design factors: Design parameters: H2S considered? No Collapse: Collapse 75 °F Surface temperature: 9.500 ppg Design factor 1.125 Mud weight Bottom hole temperature: 110 °F Design is based on evacuated pipe. 0.80 °F/100ft Temperature gradient 850 ft Minimum section length: 8.500 in Minimum Drift: Burst Design factor 1.00 Burst Max anticipated surface 2,286 psi pressure: Non-directional string. 0.000 psi/ft Tension: Internal gradient 1.80 (J) 2,286 psi 8 Round STC: Calculated BHP 8 Round LTC: 1.80 (J) 1.60 (J) Buttress: 10.00 ppg Annular backup: Premium: 1.50 (J) Re subsequent strings: Body yield: 1.50 (8) Next setting depth: 12,000 ft

Run	Segment		Nominal	Grade	End Finish	True Vert Depth	Measured Depth	Drift Diameter	Internal Capacity
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	G1204	FRUSI	(tt)	(ft)	(in)	(ft²)
1	4400	9.625	40.00	J-55	LT&C	4400	4400	8.75	350
Run	Collapse	Collapse	Coilapse	Burst	Burst	Burst	Tension	Tension Strength	Tension Design
Seq	Load (psi)	Strength (psi)	Design Factor	Load (psi)	Strength (psi)	Design Factor	Load (Kips)	(Kips)	Factor
1	2171	2570	1.18	2286	3950	1.73	151	520	3.44 J

Tension is based on buoyed weight.

3.778 ft

Neutral point

Prepared W. M. Frank by: Devon Energy Phone: (405) 552-4595 FAX: (405) 552-4621

Date: November 24,1998 Oklahoma City, Oklahoma

Remarks: Collapse is based on a vertical depth of 4400 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Colleges strength is based on the Westcott, Duniop & Kemier method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Wolfcamp Well Production Weil name:

Devon Energy Corporation (Nevada) Operator:

Production String type:

T23S, R31E, Eddy County, New Mexico Location

Design parameters: Collapse 9.500 ppg Mud weight Design is based on evacuated pipe.

Minimum design factors: Collapse: Design factor 1.125

Environment H2S considered?

Na 75 °F Surface temperature: Bottom hole temperature: 171 °F 0.80 °F/100ft Temperature gradient: 850 ft Minimum section length:

Burst

Design factor

Non-directional string.

<u>Burst</u>

Max anticipated surface pressure: internal gradient:

5,922 psi 0.000 psi/ft 5,922 psi Calculated BHP Annuiar backup:

9.50 ppg

8 Round LTC: Buttress: Premium:

8 Round STC:

Tension:

1.50 (J) Body yield: 1.50 (8)

Tension is based on buoyed weight. Neutral point: 10,481 ft

1.00

1.80 (J)

1.80 (J)

1.60 (J)

Packer fluid details:

Fluid density: Packer depth: 11.500 ft

8.400 ppg

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft*)
2	10500	5 .5	17.00	L-80	lt&c	10500	10500	4.767	381.8
1	1500	5 .5	20.00	L-80	Lt&c	12000	12000	4.6 5 3	60.7
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
2	5182	6290	1.21	5922	7740	1.31	178	338	1.89 J
	5922	8830	1.49	5322	9190	1.73	0	416	99.9 9 J

Prepared W. M. Frank by: Devon Energy

Phone: (405) 552-4595 FAX: (405) 552-4621

Date: November 24,1998 Oklahoma City, Oklahoma

Collapse is based on a vertical depth of 12000 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kernler method of bisoial correction for tension.

Burst strength is not adjusted for tension.

DEVON **ENERGY** CORPORATION 1500 Mid-America Tower 20 North Broadway Oklahoma City, Oklahoma 73102-8260 405/235-3611 TWX 910-631-3277

May 5, 1989

State of New Mexico Dil & 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,

Lease Records Supervisor

encis

Carolyn Wilson **CC:**

McEldowney McWilliams

RIDER

To be attached to and become	a part of Bond No. 56-0130-11003-87-1
issued by the United States Fidel	ity and Guaranty Company, on
behalf of Devon Energy Corp	oration
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 argregate to the Oblinee 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 3rdday of March 1989.

ATTEST:			nergy Corporation (Nevada)	·
. Dun	ameting	By:	SRVIN C. L'EINDE, JR. Vice President	
ase-0		FIDELITY	AND GUARANTY COMPANY	
	By:			
	Marcia C. Bre-	ida	Attorney-in-fact	