

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Devon Energy Production Company, LP 20 North Broadway Oklahoma City, OK 73102-8260		² OGRID Number 6137
		³ API Number 30-025-36643
³ Property Code 29408	⁵ Property Name Keller 4 State	⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	4	23S	35E		1980	South	990	West	Lea

⁸ Proposed 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

⁹ Proposed Pool 1

Wildcat

¹⁰ Proposed Pool 2

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3537'
¹⁶ Multiple No	¹⁷ Proposed Depth 14,200	¹⁸ Formation Morrow	¹⁹ Contractor	²⁰ Spud Date 04/15/04

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	54.5	1,100'	650	Surface
12 1/4"	9 5/8"	40	5,400	1000	4100'
8 3/4"	7	26	12,000'	500	9000'
6 1/8"	4 1/2" Liner	13.5	14,200'	250	11,700'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Devon Energy Production Company, LP plans to drill this well to a total depth of 14,200' and complete as a Morrow gas well. Should the well be deemed noncommercial, then it will be plugged and abandoned in accordance with the rules established by the New Mexico Oil Conservation Division. An APD for this well was approved on February 11, 2002, extended on Feb 01, 2003 and expired on February 01, 2004.. Due to scheduling conflicts we were unable to drill this well, but currently have plans to do so.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: <i>Linda Guthrie</i>		Approved by: <i>Paul J. [Signature]</i>	
Printed name: Linda Guthrie		Title: PETROLEUM ENGINEER	
Title: Operations Associate		Approval Date: MAR 24 2004	Expiration Date:
Date: 03/10/04	Phone: 405 228-8209	Conditions of Approval:	
		Attached <input type="checkbox"/>	

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

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 30-025-36643	Pool Code	Pool Name Wildcat
Property Code	Property Name KELLER "4" STATE	Well Number 1
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION CO., L.P.	Elevation 3537'

Surface Location

UL or lot No. L	Section 4	Township 23 S	Range 35 E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the 990	East/West line WEST	County LEA
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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
Dedicated Acres 320		Joint or Infill	Consolidation Code	Order No.					

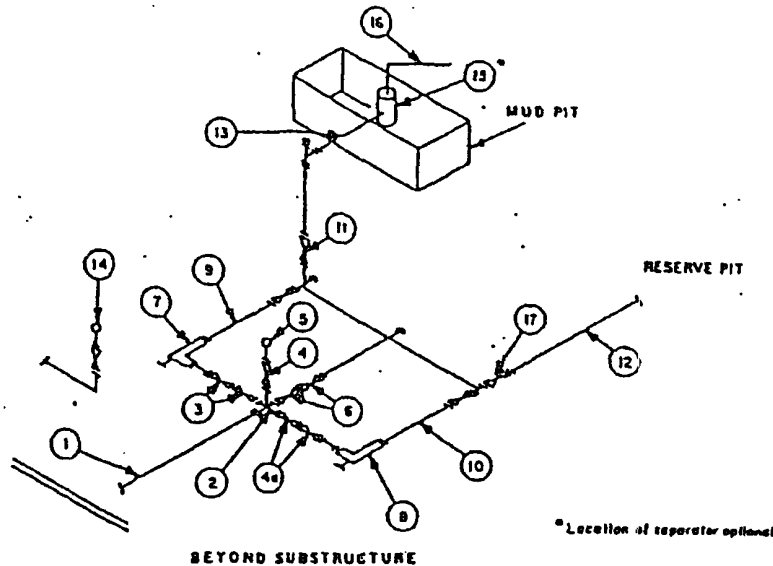
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Karen Cotton Printed Name Engineering Technician Title February 4, 2002 Date
	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 supervision and that the same is true and correct to the best of my belief. Date Surveyed January 22, 2002 Signature L. Jones Professional Surveyor O.O. No. 2207 Certified L. Jones 7977 BASIN SURVEYS

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 <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
4	Valve Gate <input type="checkbox"/> Plug <input type="checkbox"/> (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 <input type="checkbox"/> Plug <input type="checkbox"/> (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 <input type="checkbox"/> Plug <input type="checkbox"/> (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 <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000

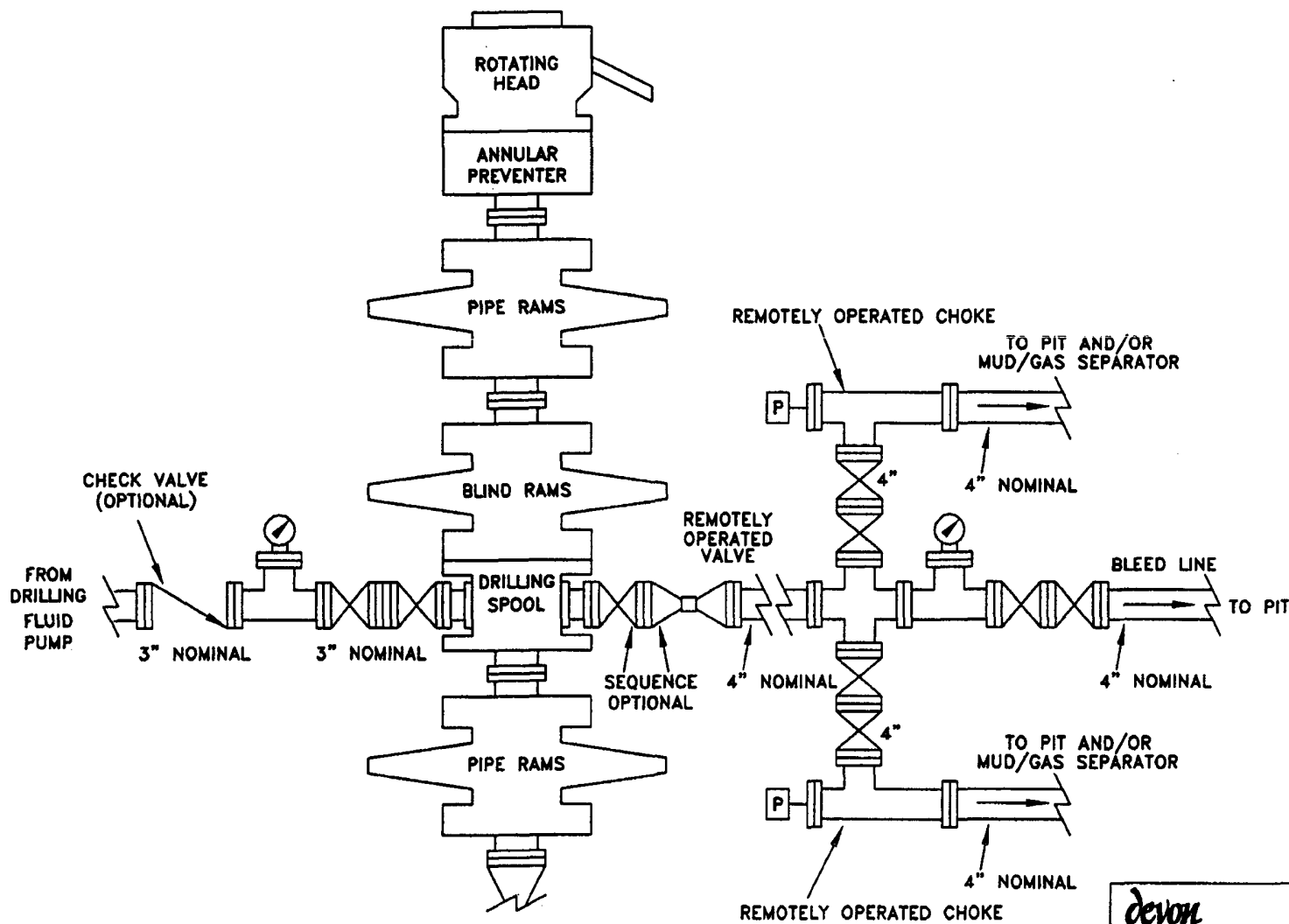
(1) Only one required in Class 3M.

(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

1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
2. All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX 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.
5. 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.
6. 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.



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10mbops.dwg

devon
DRILLING SERVICES

AREA NAME

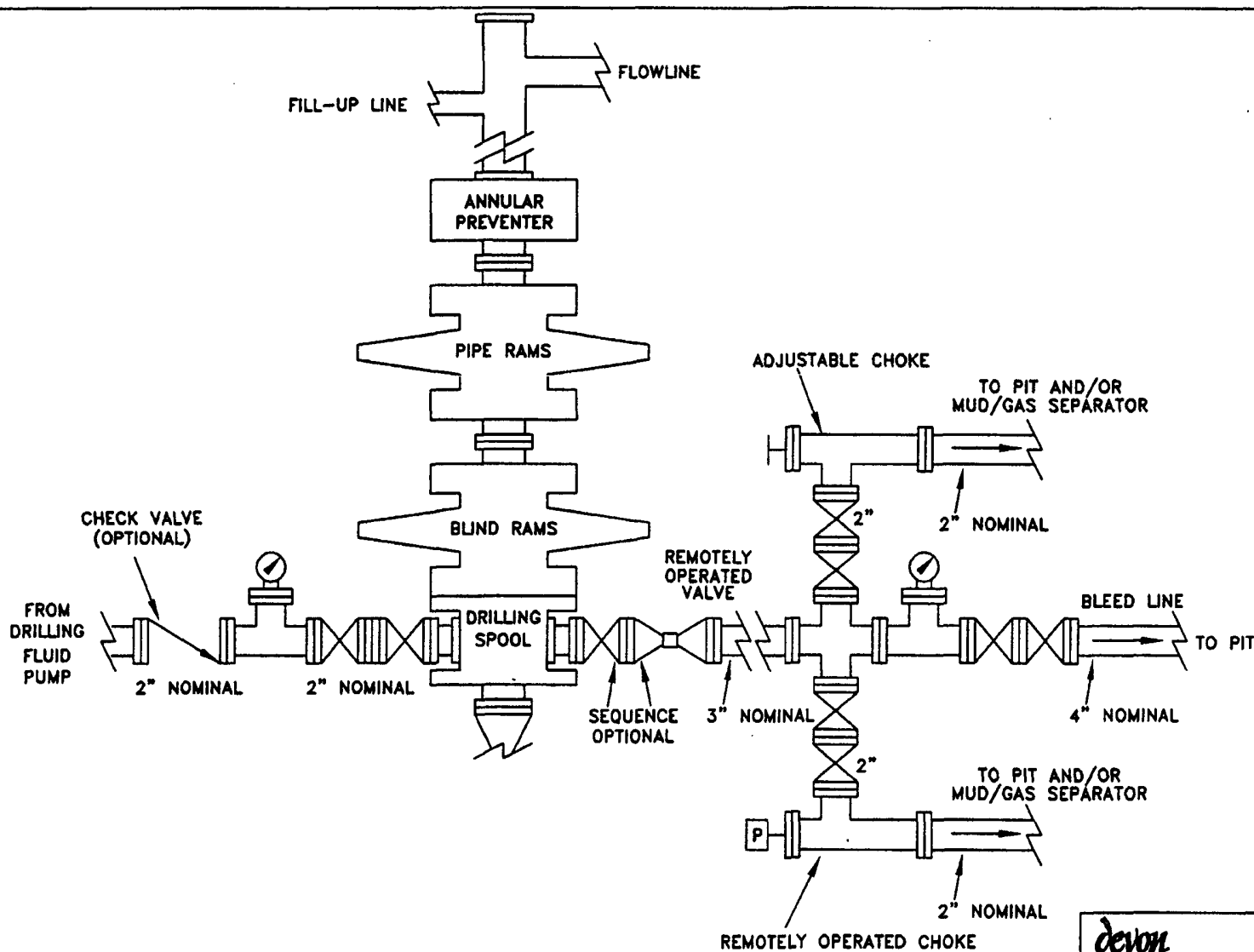
COUNTY, STATE

SCHEMATIC

PROPOSED 10-M BOPE
AND CHOKE ARRANGEMENT

SC

10/00



devon
DRILLING EQUIPMENT

AREA NAME

COUNTY, STATE

SCHEMATIC

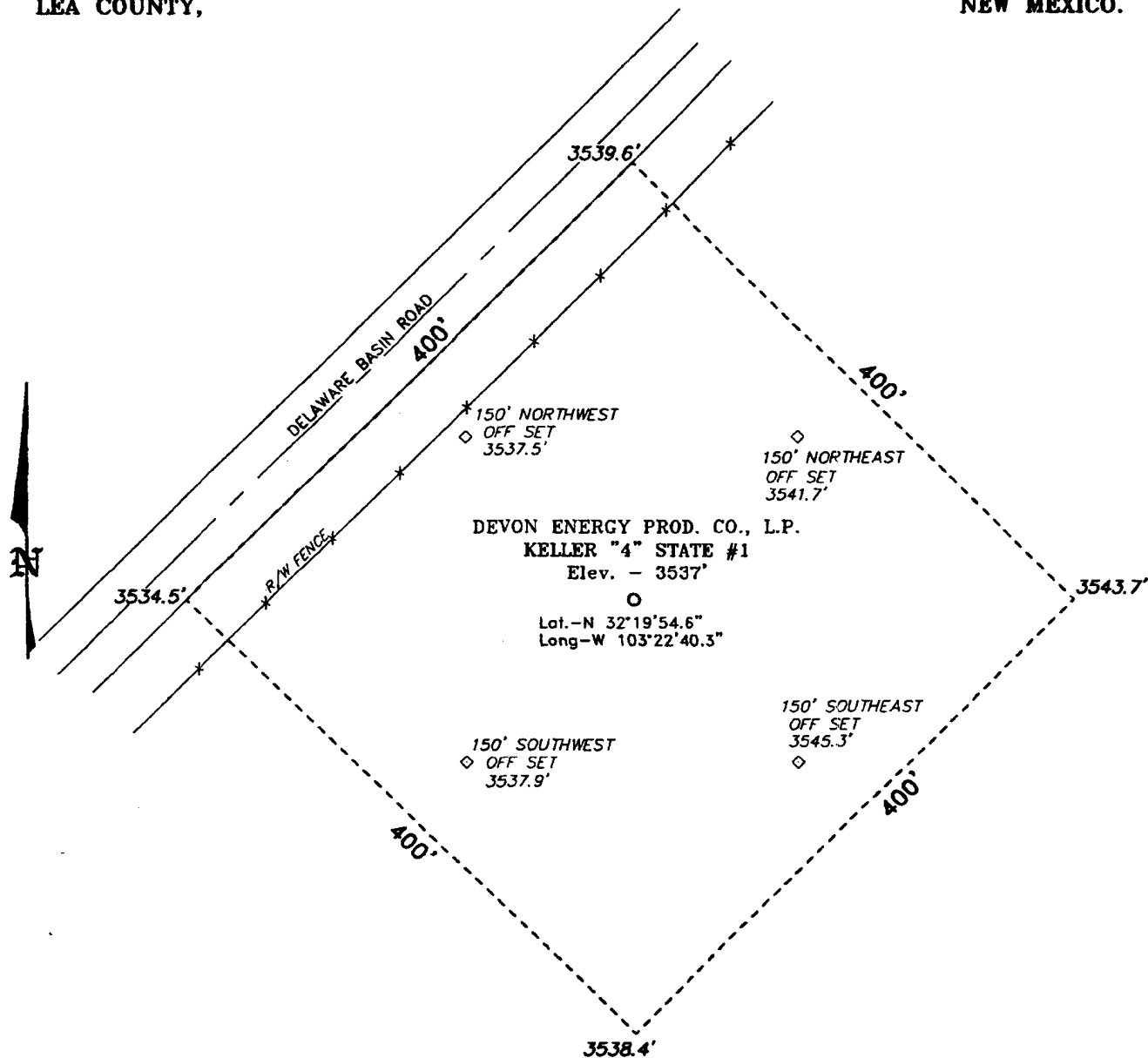
PROPOSED 5-M BOPE
AND CHOKE ARRANGEMENT

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SC

10/00

SECTION 4, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



Directions to Location:

FROM THE JUNCTION OF CO. RD. E-11 AND CO. RD. 21 (DELAWARE BASIN ROAD), WEST ON E-21 FOR APPROX. 3.75 MILES TO A POINT ON THE NORTHWEST EDGE OF PROPOSED PAD.



DEVON ENERGY PROD. CO., L.P.

REF: KELLER "4" STATE No. 1 / Well Pad Topo

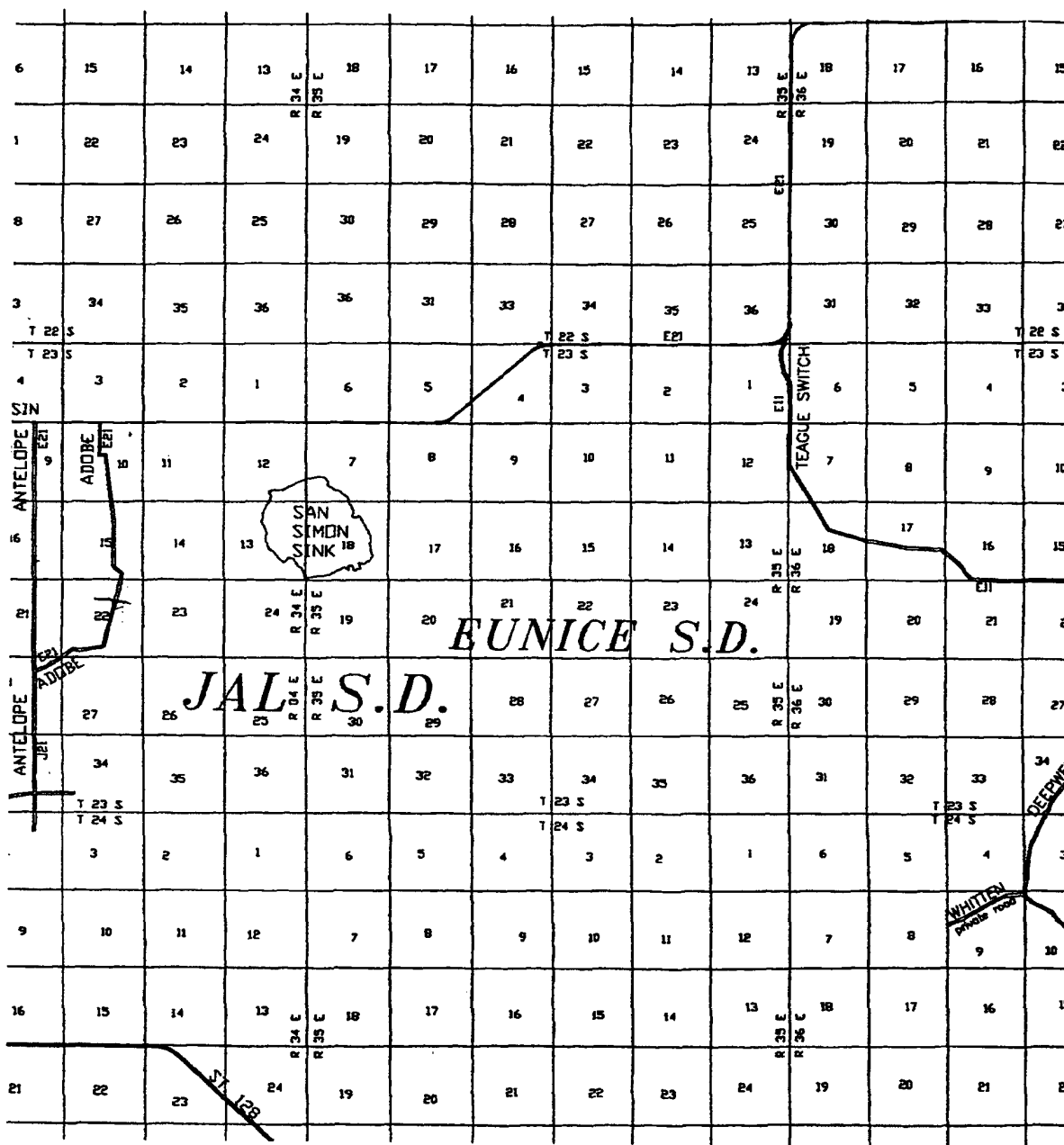
THE KELLER "4" STATE No. 1 LOCATED 1980' FROM THE SOUTH LINE AND 990' FROM THE WEST LINE OF SECTION 4, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 2207 Drawn By: K. GOAD

Date: 01-23-2002 Disk: KJG CD#4 - 2207A.DWG

Survey Date: 01-22-2002 Sheet 1 of 1 Sheets



KELLER "4" STATE #1

Located at 1980' FSL and 990' FWL

Section 4, Township 23 South, Range 35 East,
N.M.P.M., Lea 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) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com

W.O. Number: 2207AA - KJG CD#4

Survey Date: 01-22-2002

Scale: 1" = 2 MILES

Date: 01-23-2002

DEVON
ENERGY PROD.
CO., L.P.

UNIT :
 LEASE : NORTHERN NATURAL STATE
 WELL : 1
 S/T/R : 28-22S-35E
 COUNTY: LEA
 STATE : NEW MEXICO

TYPE TEST: 1 POINT
 : INITIAL
 TEST DATE: 6/ 2/77

NEW MEXICO OIL CONSERVATION COMMISSION
 MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

COMPANY: UNION OIL OF CAL,
 FIELD: ADRA PROSPECT POOL:
 COMPLETED 5-31-77 TD = 15390
 CSG SIZE = 7.6250 WT = 39.00
 TEG SIZE = 2.8750 WT = 6.50
 TYPE COMPLETION: NATURAL
 PRODUCING THROUGH: TUBING
 RESERVOIR TEMP., F = 176 @ 13560 FT.
 CONNECTION:
 RESERVOIR: MORROW
 PED = 14480 ELEV = 3548
 SET AT 14601 PERF: 13557-13565
 SET AT 12696 PERF: 0-
 PACKER SET AT: 12655
 BARO. PRESS = 13.20 PSIA
 MEAN GROUND TEMP., F = 78

L	H	G	% CO2	% N2	% H2S	PROVER	H-RUN	TAPS
13560	13560	.640	.13	.60	0.	0.	4.0	FLANGE

NO.	LINE SIZE	ORI. SIZE	FLOW PSIG	IN. IN.	FLOW TEMP	TEG. PSIG	TEG. TEMP	CSG. PSIG	CSG. TEMP	FLOW G.P.
SI						5100				18.0
1	4.03 X 2.000		220	39.0	76	320	78	0	0	1.0
2										
3										
4										

NO.	COEFFICIENT (24 - HOUR)	SQRT. (TEMP)	PRESS. PSI	T-FACTOR F(T)	C-FACTOR F(C)	SC-FACTOR F(PV)	FLOW BCFD
1	19.81	95.37	233.2	.9850	1.2500	1.0211	2375
2							
3							
4							

NO.	P(T)	TEMP. F	T(T)	Z	GAS LIQ. RATIO, SCF/BSL	76.526
1	.35	636	1.45	.950	API GRAV OF HYDROCARBONS	30.0
2					SP G SEPARATOR GAS	440
3					SP G FLOWING FLUID	MINNE
4					CRITICAL PRESS., PSIA	670
5					CRITICAL TEMP., F	365

NO.	PR	PR*PV	PC*PC-PR*PV	PC =	5039.77
1	426	181	25719	PC*PC =	25900
2				PERFC / (PC*PC - PR*PV) =	
3					