

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
SUNDRY NOTICES AND REPORTS ON WELLS

OCD-HOBBS

FORM APPROVED  
OMB NO 1004-0135  
EXPIRES: NOVEMBER 30, 2000

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE

1a Type of Well ☒ Oil Well ☐ Gas Well ☐ Other \_\_\_\_\_

2. Name of Operator  
**DEVON ENERGY PRODUCTION COMPANY, LP**

3. Address and Telephone No.  
**20 North Broadway, Oklahoma City, OK 73102 405-552-8198**

4 Location of Well (Report location clearly and in accordance with Federal requirements)\*  
**620 FSL & 790 FEL, Unit P Sec 24 18S 33E**

5 Lease Serial No.	111616-7 NM-04581
6 If Indian, Allottee or Tribe Name	
7. Unit or CA Agreement Name and No.	
8 Well Name and No.	<b>New Mexico Federal 4</b>
9. API Well No.	
10. Field and Pool, or Exploratory	<b>Delaware Bone Spring</b>
12. County or Parish 13. State	<b>LEA NM</b>

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recombine	<input type="checkbox"/> Other _____
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof. If the proposal deepen directionally or recompletes horizontally, give subsurface location and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirement, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

Devon Energy Production Company, LP respectfully requests approval to change the Rig to the Patterson Rig 80 per the attached rig layout.

RECEIVED

APR 14 2010

HOBBSOCD

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Name Norvella Adams  
Title Sr Staff Engineering Technician Date 12/14/2009

(This space for Federal or State Office use)

Approved by /s/ Don Peterson Title FOR FIELD MANAGER Date APR 07 2010  
Conditions of approval, if any.

Title to O.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations to any matter within its jurisdiction

\*See Instruction on Reverse Side

## **DRILLING PROGRAM – REVISED 11-5-09**

Devon Energy Production Company, LP

### **New Mexico Federal 4**

Surface Location: 620' FSL & 790' FEL, Unit P, Sec 24 T18S R33E, Lea, NM

Bottom Hole Location: 620' FSL & 790' FEL, Unit P, Sec 24 T18S R33E, Lea, NM

#### **1. Geologic Name of Surface Formation**

a. Quaternary Alluvium

#### **2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:**

a. Rustler	1673'	Fresh Water
b. Salado Salt	1938'	
c. Tansil Dol.	3065'	
d. Yates Ss	3170'	Oil & Gas
e. Seven Rivers	3672'	Oil & Gas
f. Queen Ss	4373'	Oil & Gas
g. Grayburg	4448'	Oil & Gas
h. Cherry Canyon	5291'	Oil & Gas
i. Bone Spring	7450'	
j. 1 <sup>st</sup> Bone Spring Ss	8760'	
k. 2 <sup>nd</sup> Bone Spring Lm	8980'	Oil & Gas
l. 2 <sup>nd</sup> Bone Spring Ss	9365'	Oil & Gas
m. 3 <sup>rd</sup> Bone spring Lm	9790'	Oil & Gas
n. 3 <sup>rd</sup> Bone Spring Ss	10,050'	Oil & Gas
o. Wolfcamp	10,310'	Oil & Gas

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 8 5/8" casing at 3100' and circulating cement back to surface. The Delaware intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement to 2600'.

#### **3. Casing Program:**

<u>Hole Size</u>	<u>Hole Interval</u>	<u>OD Csg</u>	<u>Casing Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
17 1/2"	0' – 1750'	13 3/8"	0' - 1750'	54.5#	ST&C	J-55
12 1/4"	1750' - 3100'	9 5/8"	0' - 3100'	40#	LT&C	K-55
8 3/4"	3100' - 10,500'	5 1/2"	0' - 10,500'	17#	LT&C	P-110

**Design Parameter Factors:**

<u>Casing Size</u>	<u>Collapse Design</u>	<u>Burst Design</u>	<u>Tension Design</u>
	<u>Factor</u>	<u>Factor</u>	<u>Factor</u>
13 3/8"	1.41	3.42	5.38
9 5/8"	1.73	2.66	3.92
5 1/2"	1.30	1.85	2.48

**4. Cement Program: (Note yields; and dv tool depths if multiple stages)**

- a. 13 3/8" Surface Lead with 725 sx (35:65) Poz Class C + 5% NaCl + 1/4 lbs/sx Celloflake, and 4% Bentonite + 1% Sodium Metasilicate + 5% MPA-5; 12.8 ppg, 1.97 cf/sx, 10.56 gps. Tail with 200 sx Class C + 2% CaCl<sub>2</sub> + 1/4 lbs/sx Celloflake; 14.8 ppg, 1.35 cf/sx, 6.35 gps. TOC = 0. See COA
- b. 9 5/8" Intermediate Lead with 910 sx (35:65) Poz Class C + 5% NaCl + 1/4 lbs/sx Cello Flake + 6% Bentonite; 12.5 ppg, 2.04 cf/sx, 11.24 gps. Tail with 300 sx Class C + 1/4 lbs/sx Cello Flake; 14.8 ppg, 1.35 cf/sx, 6.35 gps. TOC = 0.
- c. 5 1/2" Production Stage 1: Lead with 755 sx (15:16:11) Poz Class C + 1% KCl + 0.75% EC-1 + 0.4% CD-32 + 3 #/sx LCM-1 + 0.6% FL-25 + 0.6% FL-52A; 13.30 ppg, 1.56 cf/sx, 7.55 gps. Stage 2: Lead with 970 sacks (35:65) Poz Class C + 1/4 #/sx Cello Flake + 6% Bentonite; 12.5 ppg, 1.94 cf/sx, 10.65 gps. Tail with 150 sx (60:40) Poz Class C + 2% NaCl + 1% Sodium Metasilicate + 4% MPA-5; 13.8 ppg, 1.35 cf/sx, 6.29 gps. TOC = 0. DV Tool set at 6950'.

The above cement volumes could be revised pending the caliper measurement from the open hole logs. All casing is new and API approved.

**5. Pressure Control Equipment:**

The blowout prevention system will consist of a bag type (hydril) preventer, a double ram preventer stack, and a rotating head. Both the hydril and ram stack will be hydraulically operated. Both BOP systems will be rated at 5000 psi. Prior to drilling out the the 8 5/8" intermediate shoe the ram stack will be nipped up with 4.5" pipe rams installed. ~~The hydril will be tested to 1000 psi (high) and 250 psi (low).~~ Tests on the 5000 psi BOP will be conducted per the BLM Drilling Operations Order #2.

The ram system will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and hydril, other BOP accessories include a kelly cock, floor safety valve, choke lines and choke manifold rated at 5000 psi WP.

See  
COA

**6. Proposed Mud Circulation System**

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' – 1750'	8.4 – 8.8	32-34	NC	Fresh Water
1750' – 3100'	8.8 – 9.2	28-30	NC	Fresh Water / Brine
3100' – 10,500'	8.6 - 10.5	28	NC-12 cc	Fresh Water / Brine

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 9 5/8" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 9 5/8" shoe until total depth is reached.

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

- a. Drill stem tests will be based on geological sample shows.
- b. If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- c. The open hole electrical logging program will be:
  - i. Total Depth to Intermediate Casing and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper. Dual Laterolog-Micro Laterolog with SP
  - ii. Total Depth to Surface Compensated Neutron with Gamma Ray
  - iii. No coring program is planned
  - iv. 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.

See  
COA

**9. Potential Hazards:**

- a. No abnormal pressures or temperatures are expected. A H2S contingency plan will be provided. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4620 psi and Estimated BHT 170°.

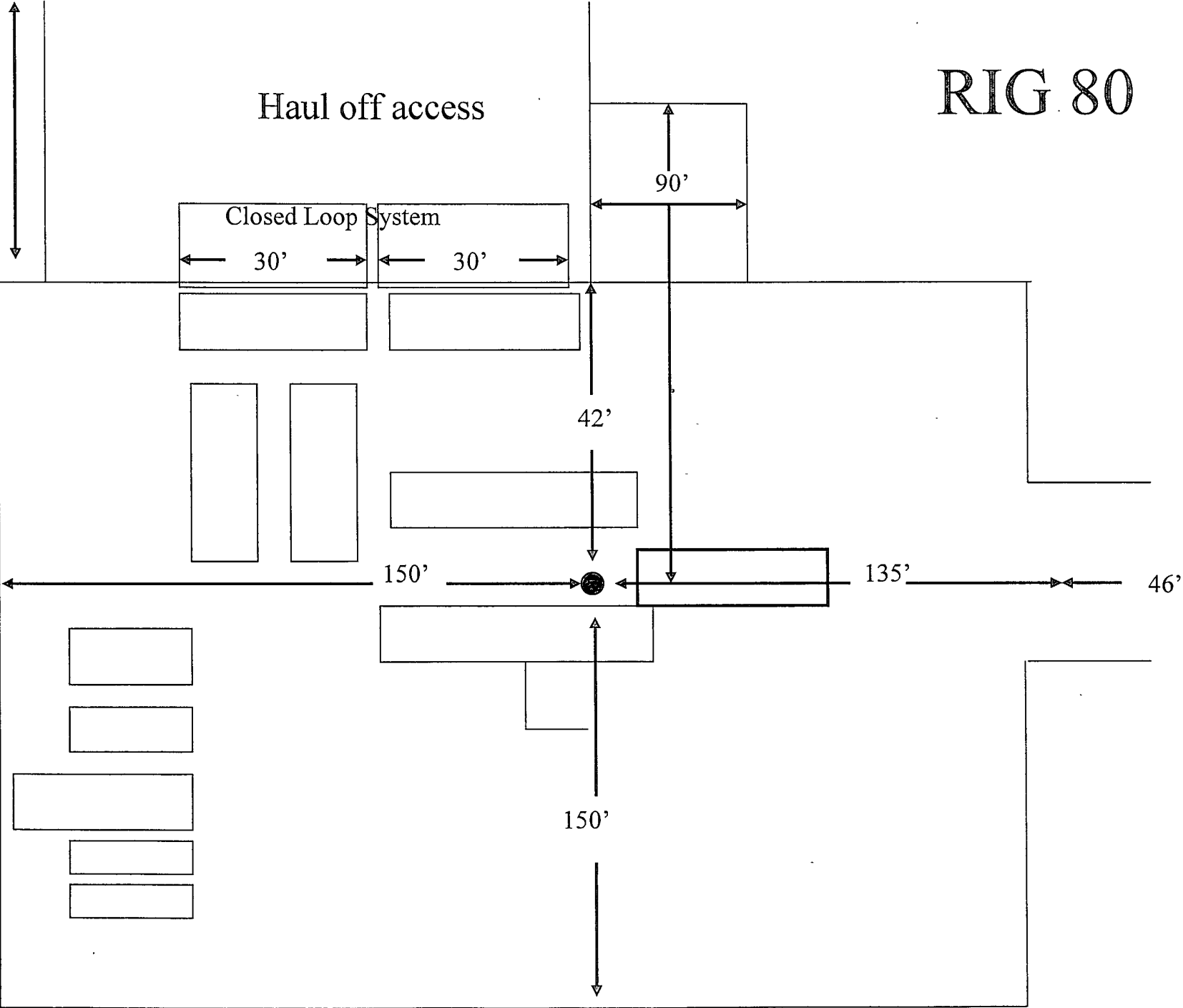
**10. Anticipated Starting Date and Duration of Operations:**

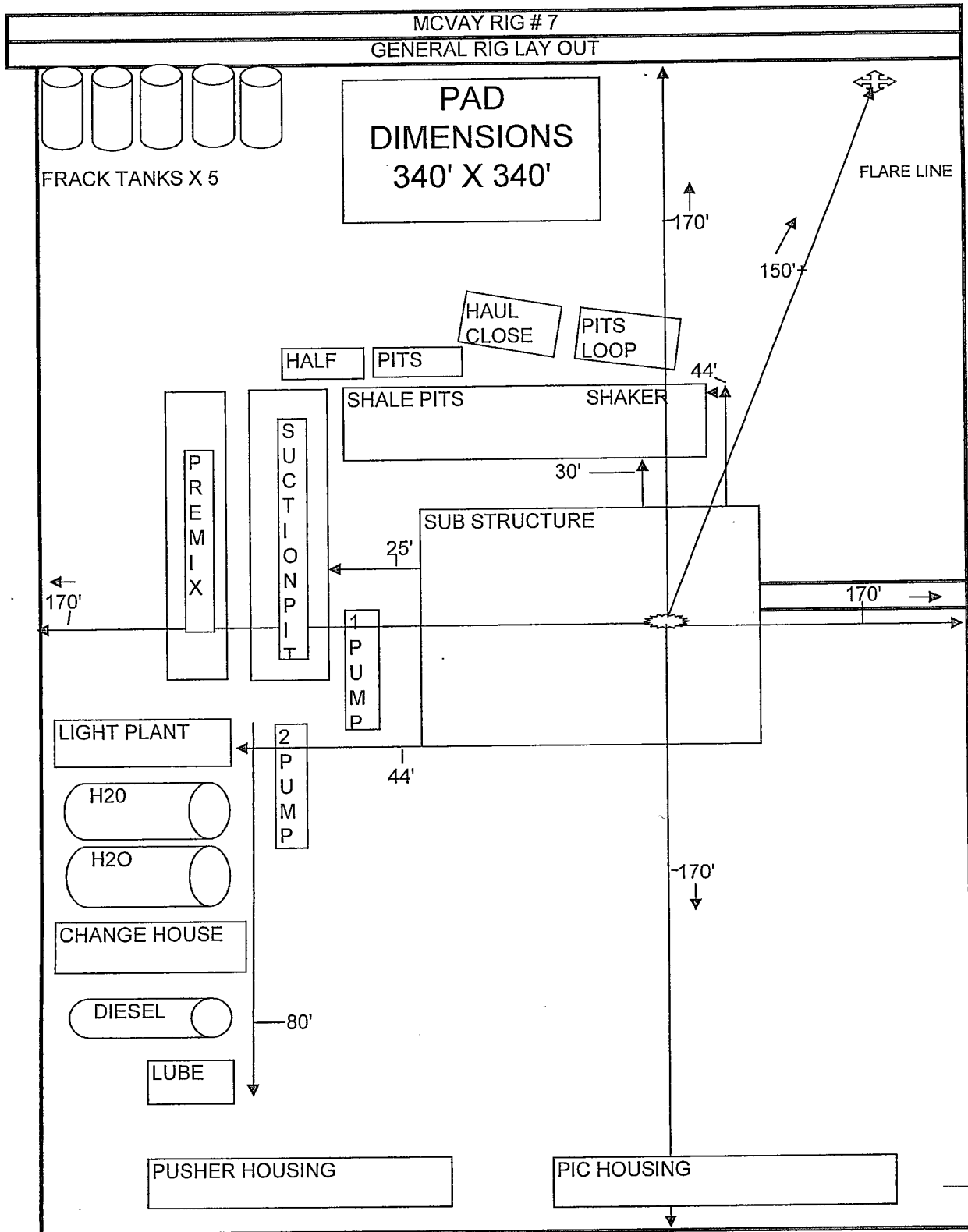
- a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 30 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

# RIG 80

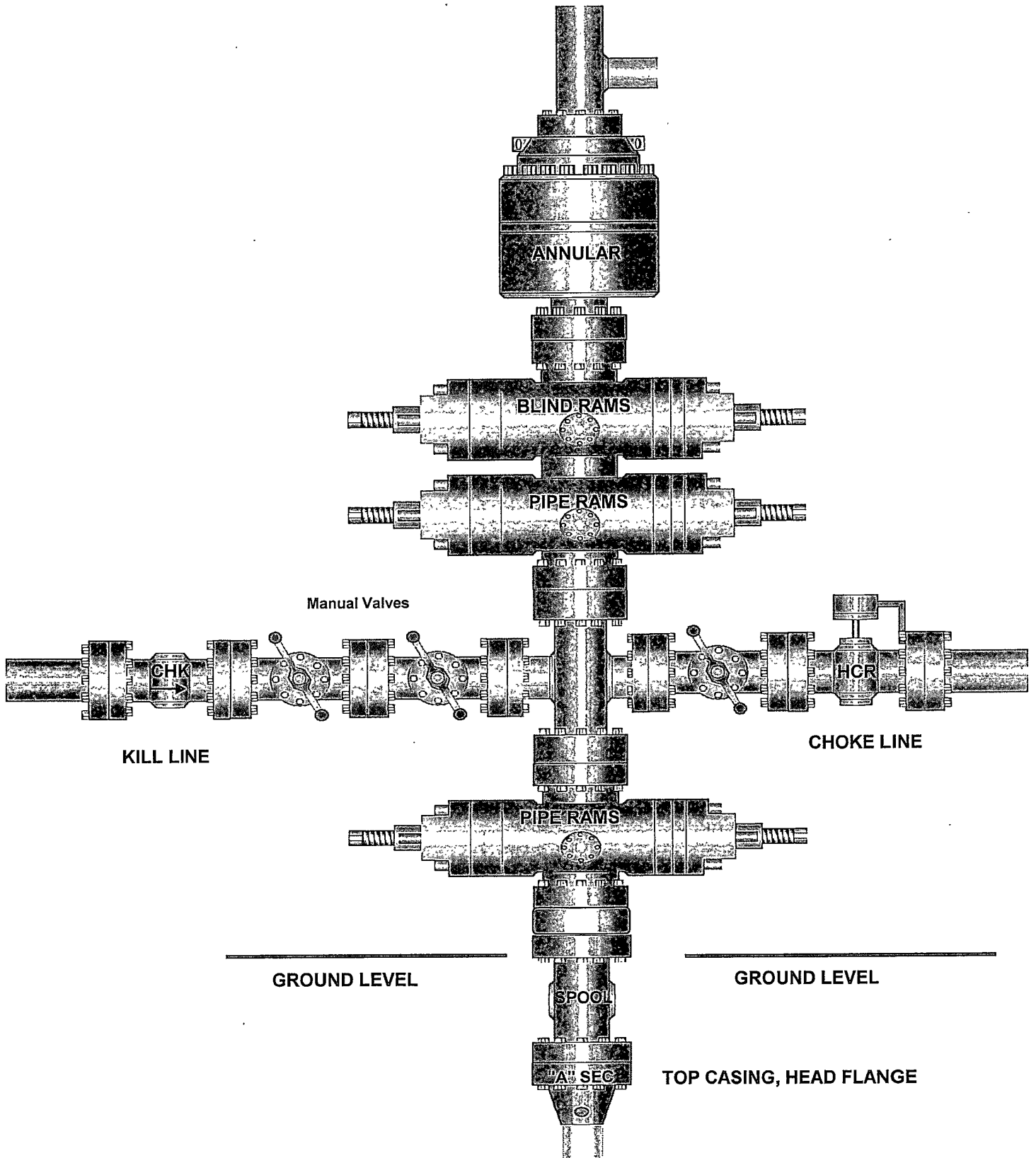
Haul off access

Closed Loop System

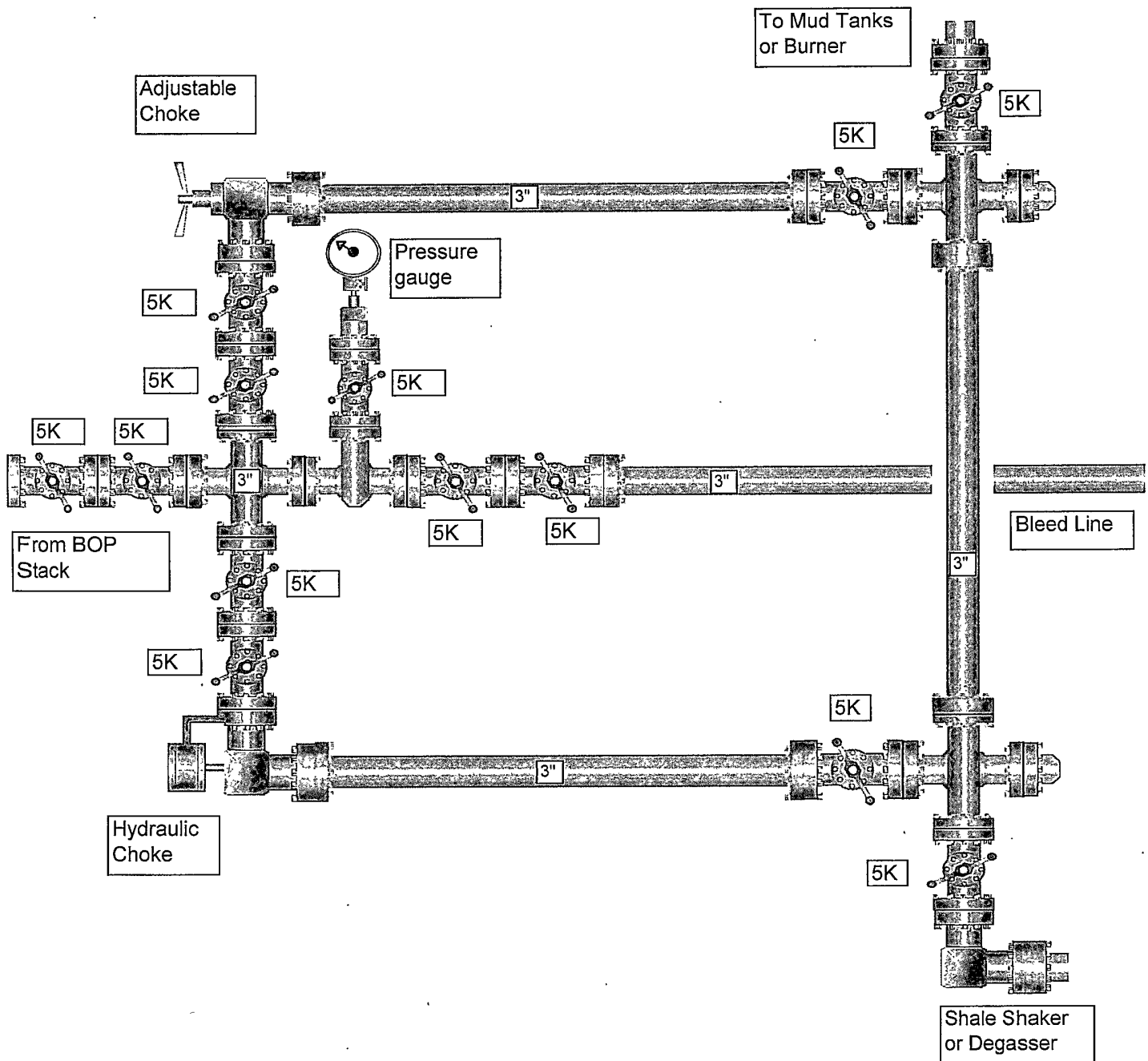




# 13-5/8" x 5,000 psi BOP Stack



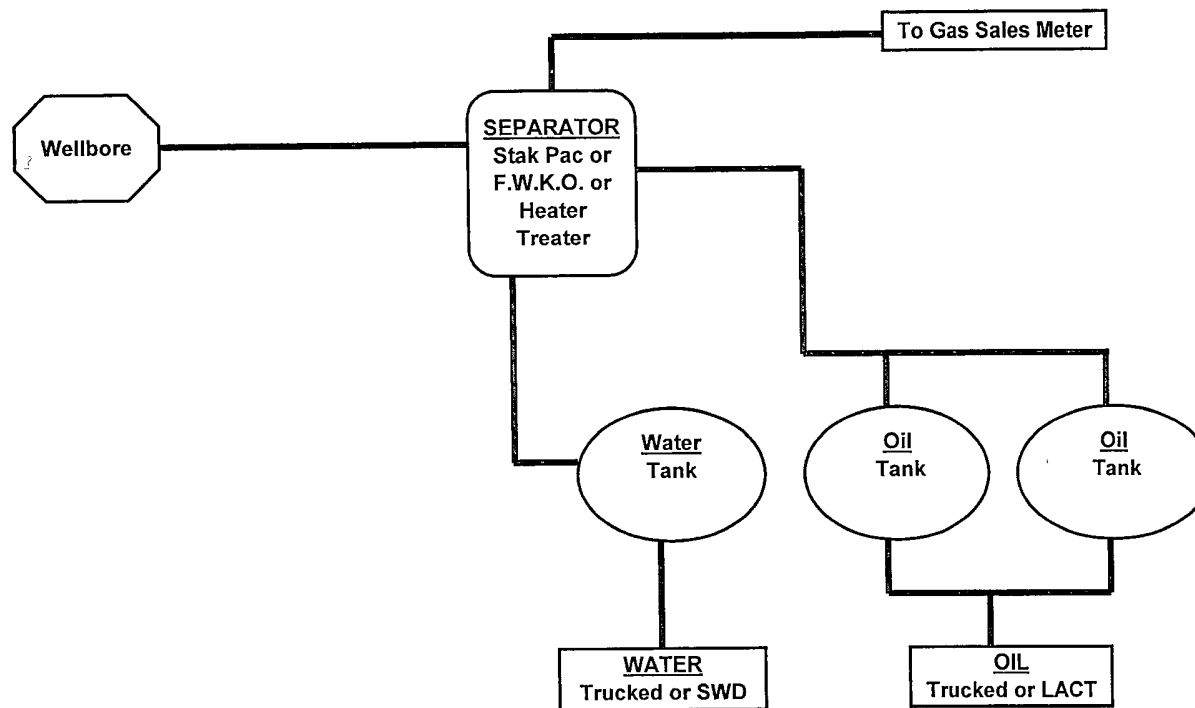
# 5,000 PSI CHOKE MANIFOLD

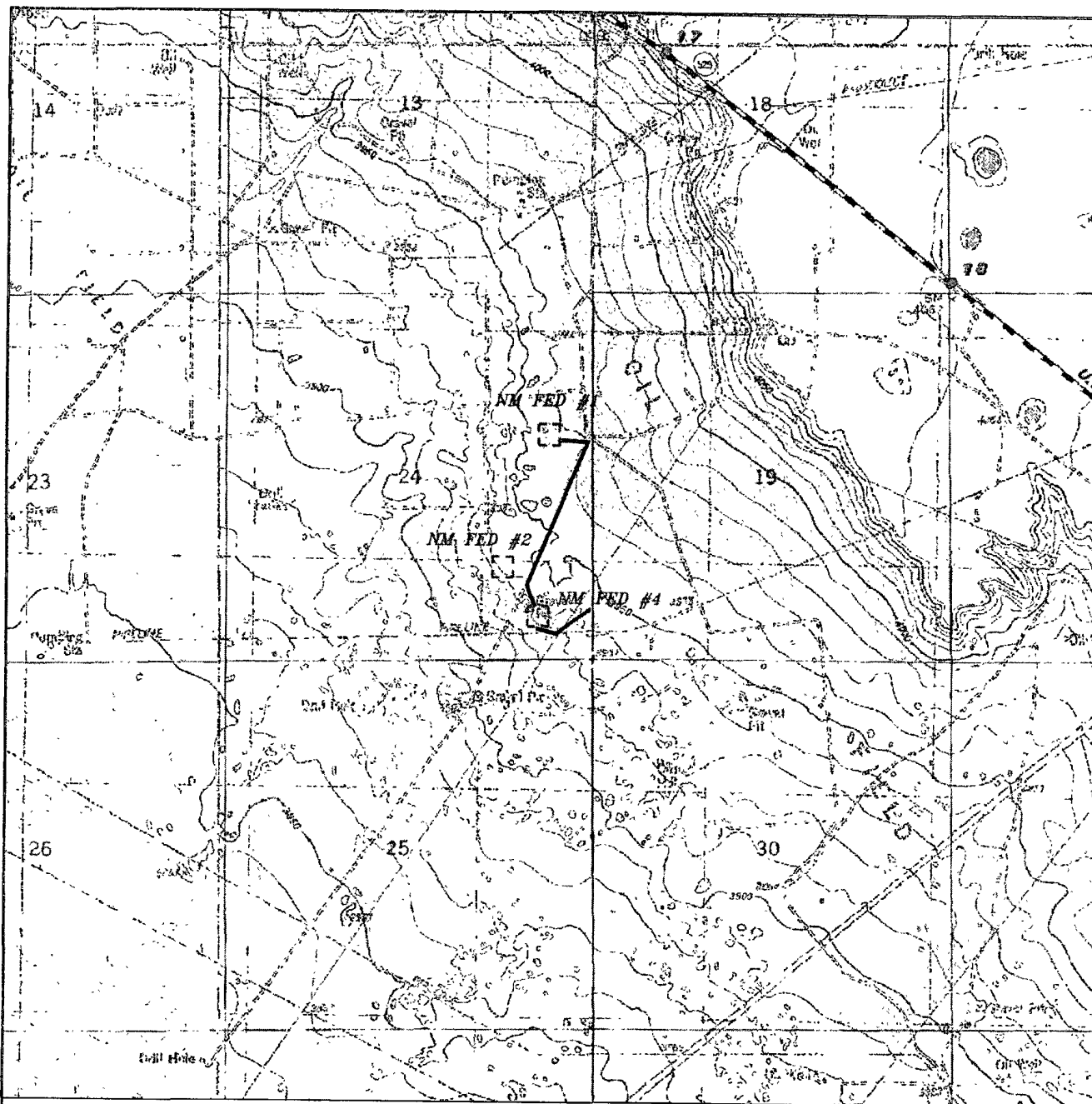




DEVON ENERGY PRODUCTION COMPANY LP

General Production Facilities Diagram





PROPOSED FLOW AND ELECTRIC LINE TO THE NM FEDERAL #4  
 Section 24, Township 18 South, Range 33 East,  
 N.M.P.M., Lea County, New Mexico.

**basin**  
**surveys**

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 in the oilfield

P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
[basinsurveys.com](http://basinsurveys.com)

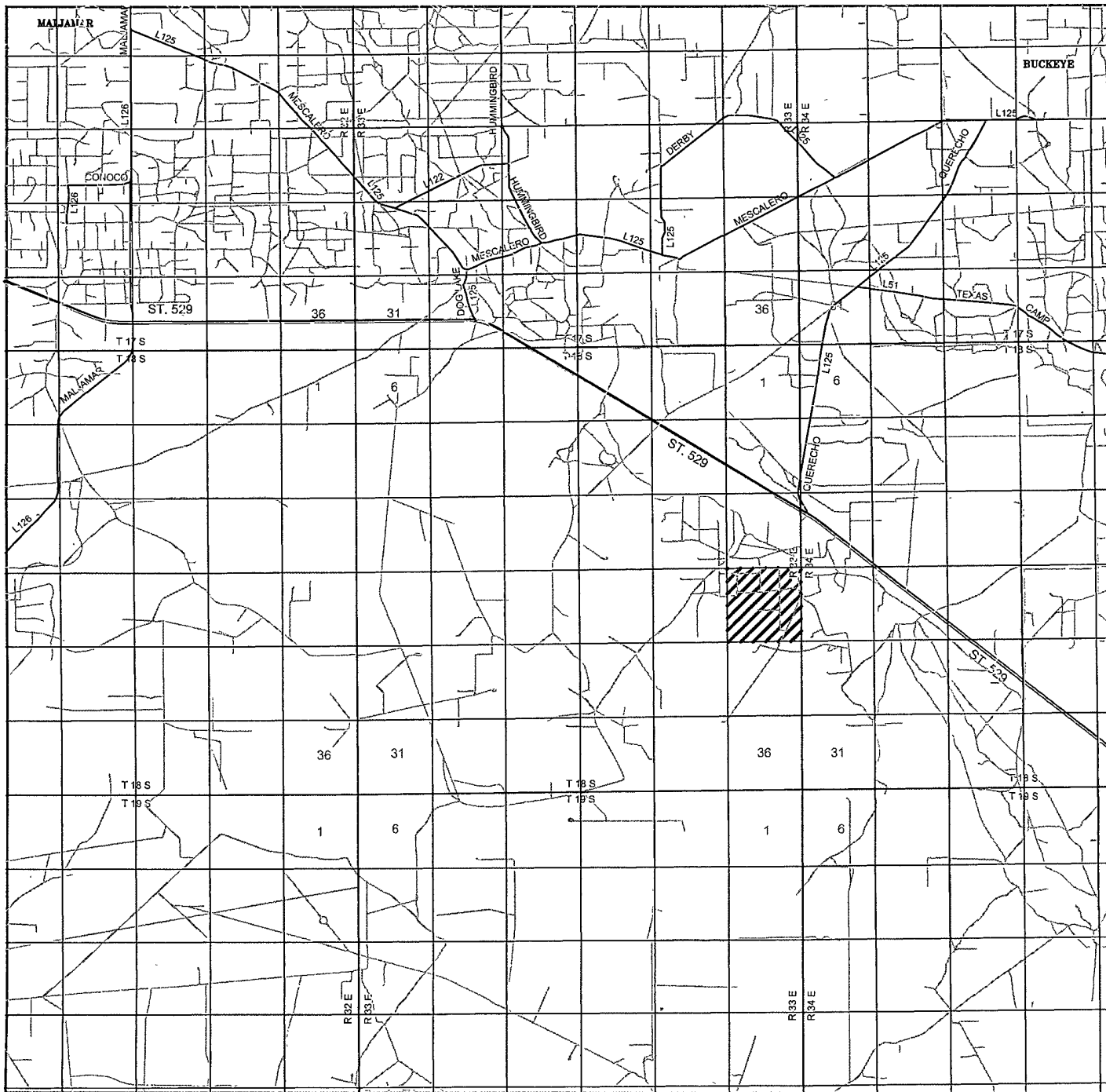
W.O. Number JMS 21919

Survey Date: 11-03-2009

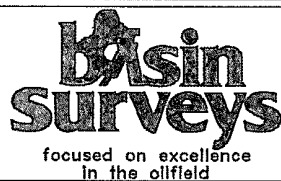
Scale: 1" = 2000'

Date: 12-04-2009

**DEVON ENERGY**  
**PRODUCTION**  
**CO. L.P.**



NEW MEXICO FEDERAL #4  
 Located 620' FSL and 790' FEL  
 Section 24, Township 18 South, Range 33 East,  
 N.M.P.M., Lea County, New Mexico.

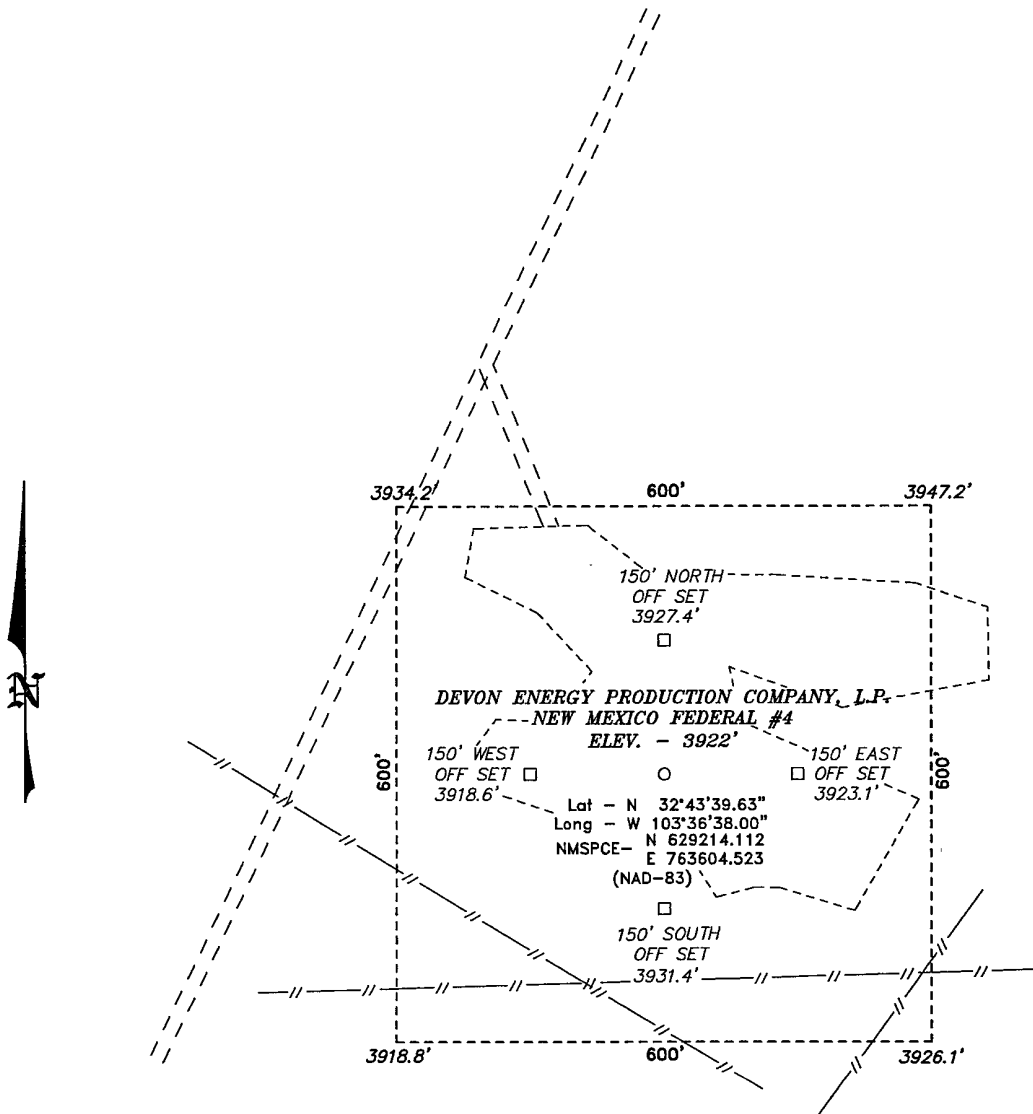


P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basinsurveys.com

W.O. Number: JMS 21684  
 Survey Date: 09-04-2009  
 Scale: 1" = 2 Miles  
 Date: 09-10-2009

DEVON ENERGY  
 PRODUCTION  
 COMPANY, L.P.

SECTION 24, TOWNSHIP 18 SOUTH, RANGE 33 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO.



200 0 200 400 FEET  
SCALE: 1" = 200'

Directions to Location:

FROM THE MILE MARKER 17 OF HWY 529; GO  
NORTHWEST 0.1 MILES TO LEASE ROAD, ON LEASE  
ROAD GO SOUTHWESTERLY WINDING SOUTH FOR 1.2  
MILES TO LEASE ROAD, ON LEASE ROAD GO  
SOUTHWESTERLY FOR 0.5 MILES TO PROPOSED  
LOCATION.

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

W.O. Number: 21684 Drawn By: J. SMALL

Date: 09-10-2009 Disk: JMS 21684

**DEVON ENERGY PRODUCTION COMPANY, L.P.**

REF: NEW MEXICO FEDERAL #4 / WELL PAD TOPO

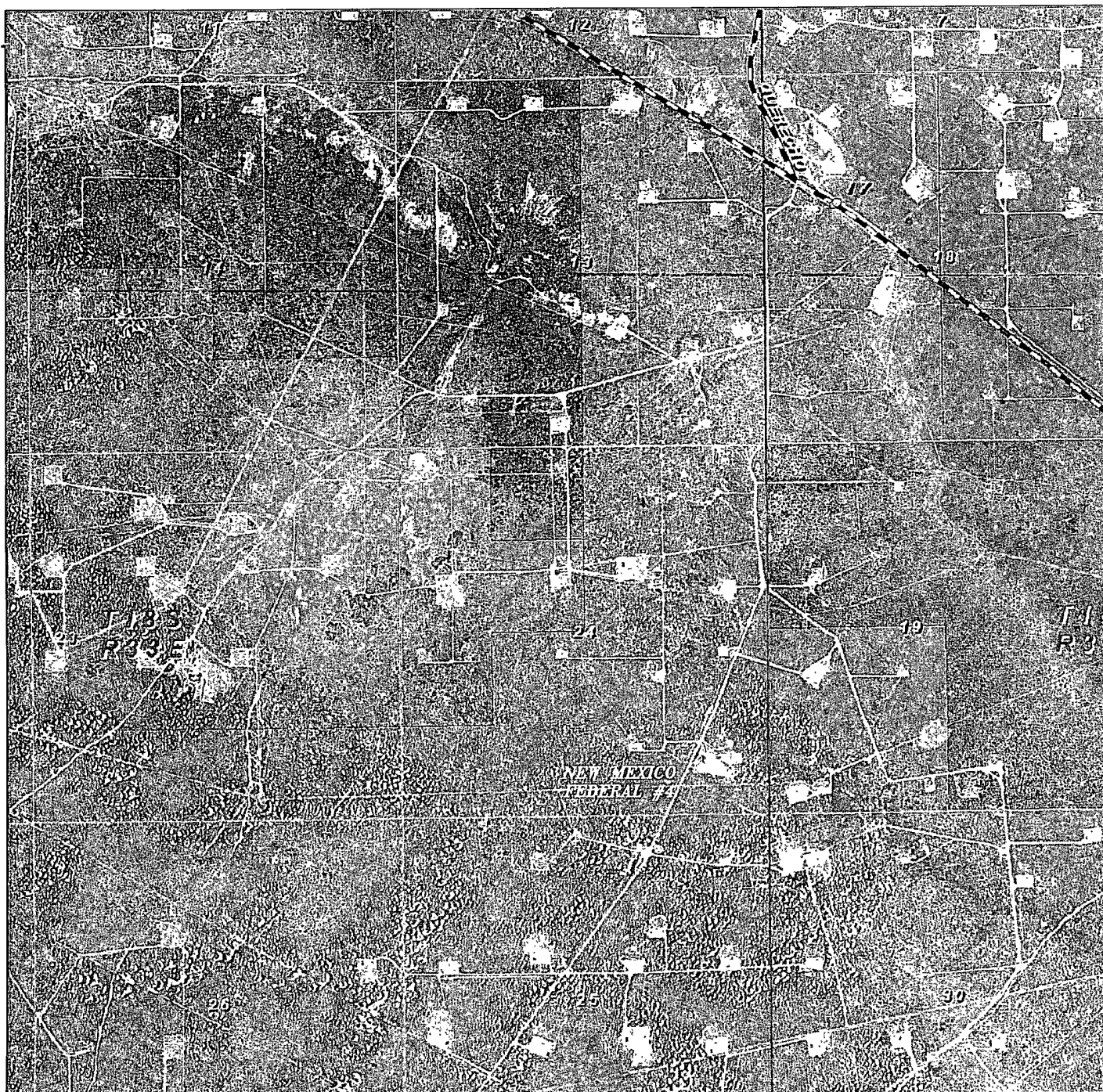
THE NEW MEXICO FEDERAL #4 LOCATED 620'

FROM THE SOUTH LINE AND 790' FROM THE EAST LINE OF

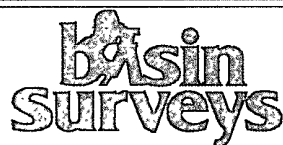
SECTION 24, TOWNSHIP 18 SOUTH, RANGE 33 EAST,

N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 09-04-2009 Sheet 1 of 1 Sheets



NEW MEXICO FEDERAL #4  
 Located 620' FSL and 790' FEL  
 Section 24, Township 18 South, Range 33 East,  
 N.M.P.M., Lea County, New Mexico.



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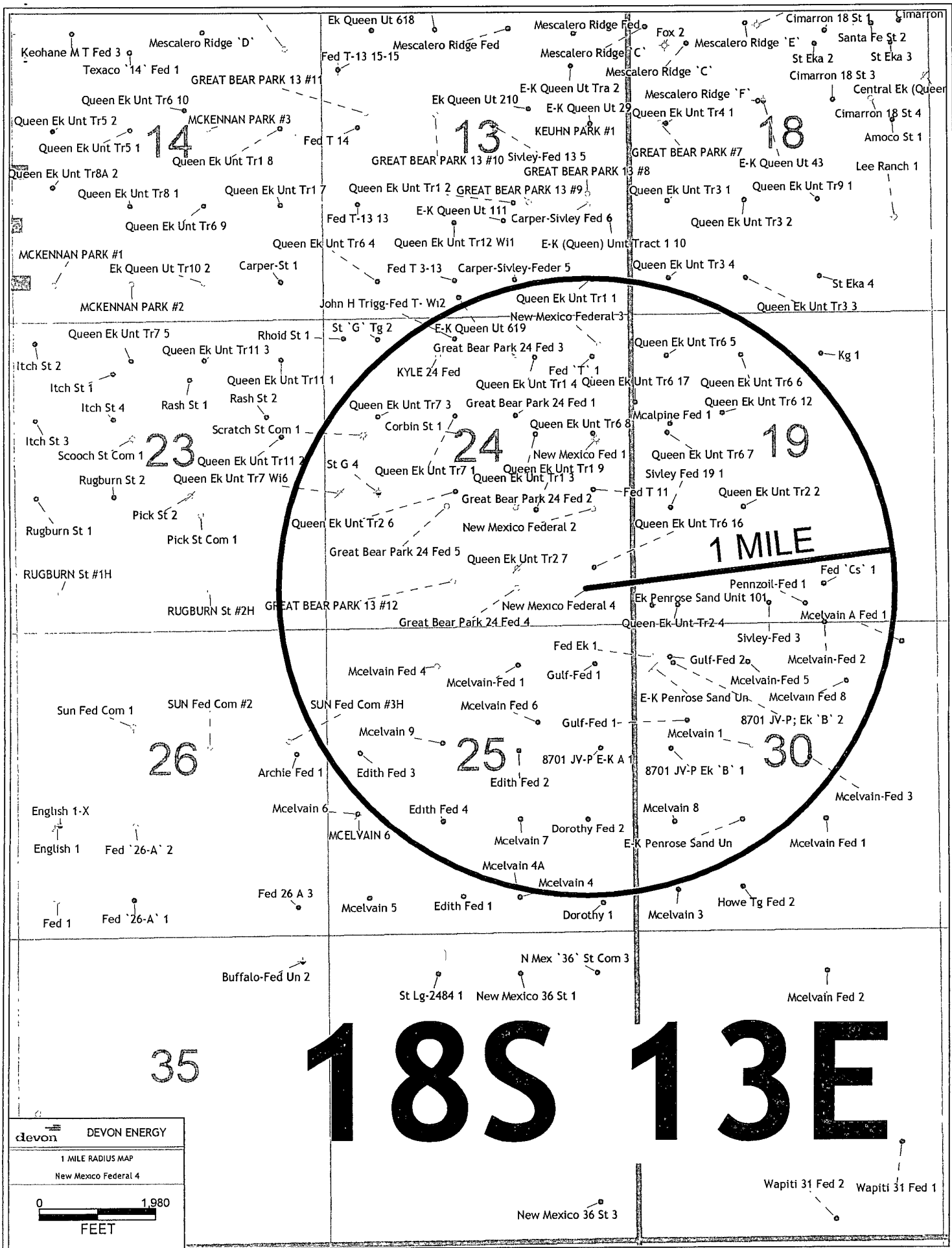
W.O. Number: JMS 21684

Scale: 1" = 2000'

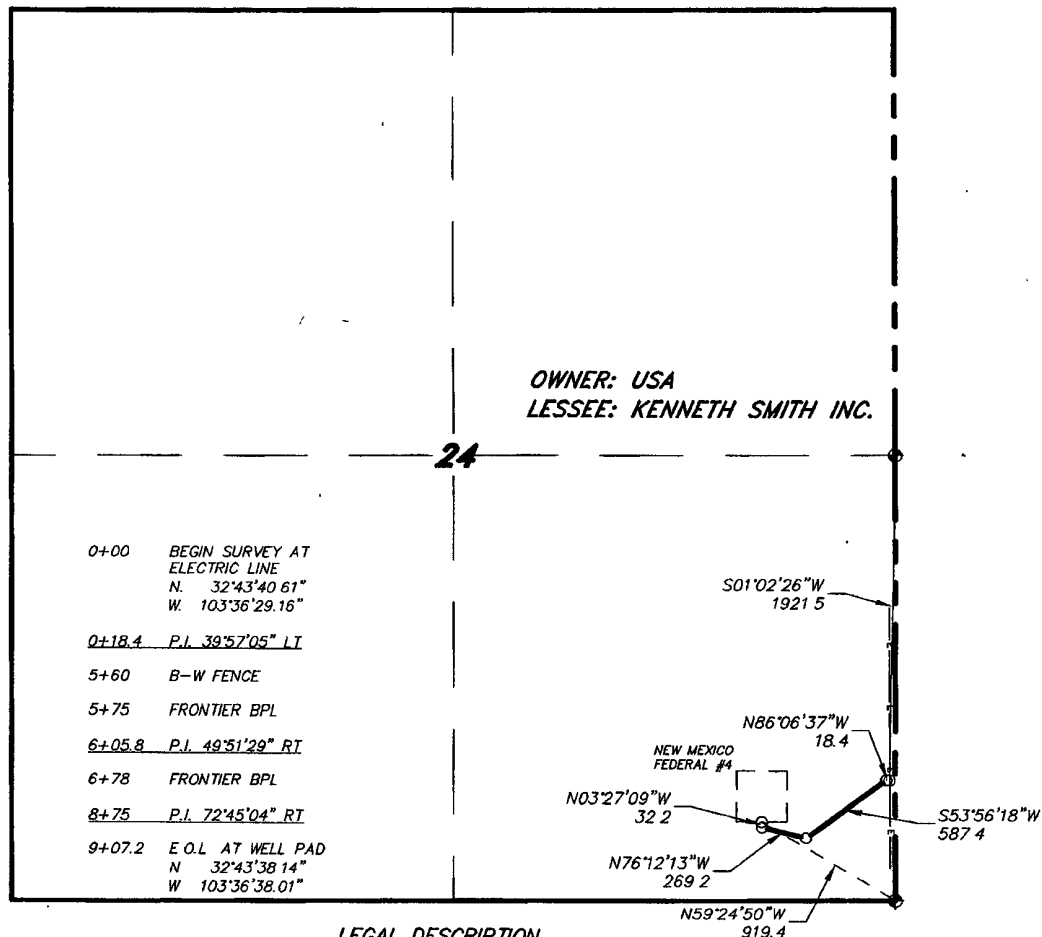
YELLOW TINT - USA LAND  
 BLUE TINT - STATE LAND  
 NATURAL COLOR - FEE LAND



DEVON ENERGY  
 PRODUCTION  
 COMPANY, L.P.



SECTION 24, TOWNSHIP 18 SOUTH, RANGE 33 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO.



LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 24, TOWNSHIP 18 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY

SECTION 24 = 907.2 FEET = 54.98 RODS = 0.17 MILES = 0.62 ACRES

I HEREBY CERTIFY THAT THIS MAP WAS PREPARED  
FROM FIELD NOTES OF MEASUREMENTS AND  
MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND  
SURVEYS AS SPECIFIED BY THIS STATE.

GARY L. JONES

No 7977  
No 5074

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

W.O. Number 21919

Drawn By J. M. SMALL

Date 12-04-2009

Disk JMS 21919

1000 0 1000 2000 FEET

**DEVON ENERGY PRODUCTION CO., L.P.**

REF. PROPOSED ELECTRIC LINE TO THE NEW MEXICO FEDERAL #4

AN ELECTRIC LINE CROSSING USA LAND IN  
SECTION 24, TOWNSHIP 18 SOUTH, RANGE 33 EAST,  
N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date 11-03-2009

Sheet 1 of 1 Sheets