

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
NM-01747

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Lea Federal #29

9. API Well No.
30-025-39077

10. Field and Pool, or Exploratory Area
Lea: Penn (Gas)

11. County or Parish, State
Lea County, NM

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Samson Resources Company

(432) 686-6336

3. Address and Telephone No.

200 N. Loraine Street, Suite 1010, Midland, TX 79701

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1310' FNL & 1948' FWL, Section 24, T20S, R34E,
Lea County, NM

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☒ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Samson Resources Company would like to request an exception / waiver to use an 11" 5M annular on top of the 11" 10M Double Gate BOP. This BOPE system will be used while drilling the 8-3/4" hole section from 5475' to TD at 13,500'. The planned BOP testing program would be as follows:

11" 5M annular preventer (tested to 3000 psi high / 250 psi low) and 11" 10M Double Gate BOP (top = pipe, bottom = blind; tested to 7000 psi high / 250 psi low). Typically the time from initial test of 11" BOP stack + related BOPE (after nipple-up) to drilling the 8-3/4" hole section to total depth at +/- 13,500' is 22-25 days. However, if 30 days elapse after the initial BOP test and before the 8-3/4" hole section is drilled to total depth at +/- 13,500', another BOP test will be performed.

NOTE: On the offset well Lea Federal Unit #28 (1/2 mile to the east) drilled in Feb/March 2008, BLM permission was granted to test the annular to 3000 psi and the double-gate BOP to 6500 psi. Due to the close proximity of the Lea #29 to the Lea #28 (1/2 mile), the same pressures and mud weights are expected: the Lea Unit Federal #28 offset had a TD mud weight @ 13,500' = 11.2 ppg; therefore maximum pore pressure = 10.7 ppg (TD mud weight minus 0.5 ppg), which equates to a maximum 7512 psi bottom hole pressure, and a maximum expected surface pressure = 6761 psi (using a gas gradient of 0.1 psi/ft).

From a practical operation standpoint, a 5M annular tested to 3000 psi is totally adequate to handle initial shut-in on kick influx, and increase in pressures up to 3000 psi. The 10M pipe ram (tested to 7000 psi) below the annular will be shut-in if the pressure ever exceeds 3000 psi. In addition, the Marrow sands are generally tight, and need hydraulic fracture treatment to be commercial, and generally produce some amounts of condensate and water, which have the effect of decreasing the maximum calculated expected surface pressure. Attached is a graph of surface producing pressure from the Federal 20-34-11#8. The Marrow formation in the offset Lea Federal #28 was so tight that commercial production was not established.

Please see attached graph entitled "Federal 20-34-11 #8".

Denied

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

Signed

Title

Kenneth C. Dickeson, Agent for
Samson Resources Company

Date

10/9/08

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

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.

*See instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

OCT 27 2008

HOBBS (11)

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Due to existing limited substructure on McVay rig #10, Samson Resources Company would like to request an exception / waiver to use an 11" 10M annular on top of the 11" 10M Double Gate BOP, and not use an additional single pipe ram (which will not fit under the rig substructure on this existing well).

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

Signed David Stonestreet Title Samson Resources Company Date 10/10/08

(This space for Federal or State official use)

Approved by TS/ JD Whitlock Jr Title _____ Date OCT 10 2008

Conditions of approval, if any:

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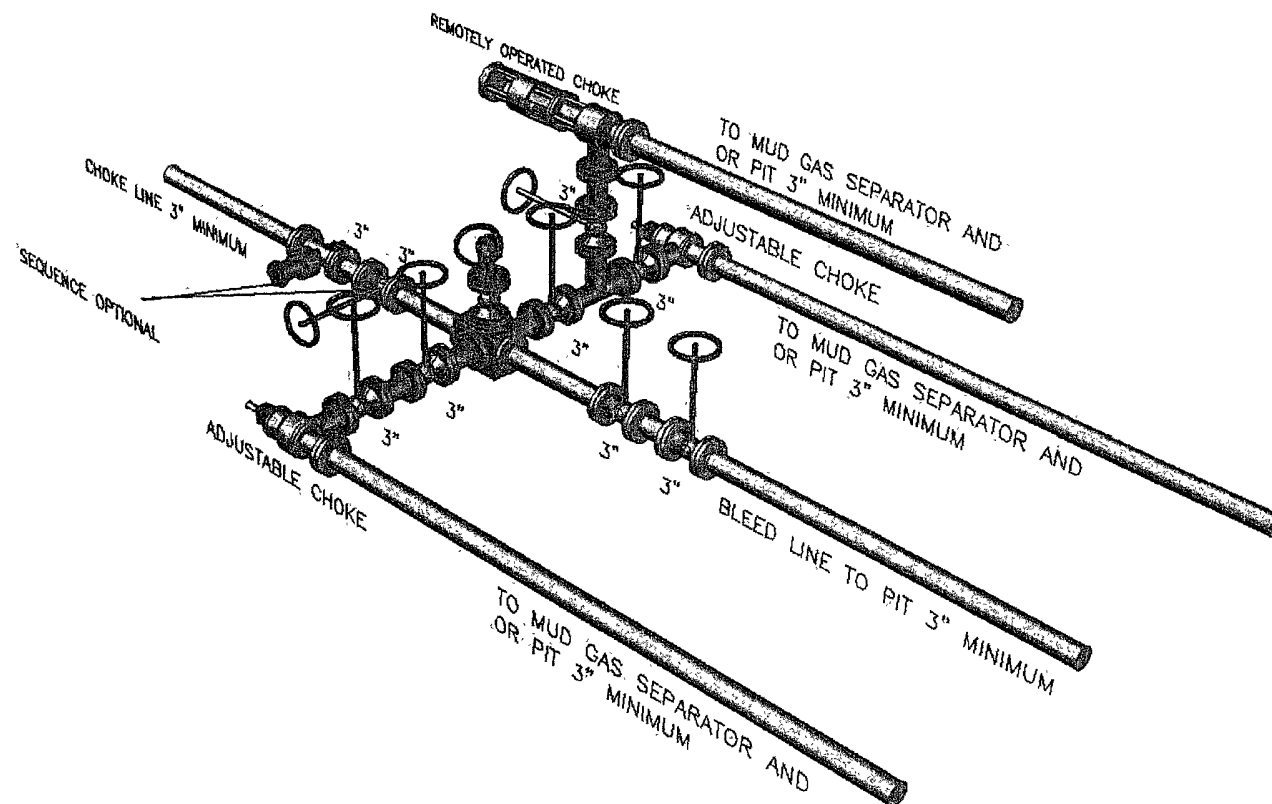
*See Instruction on Reverse Side

Samson Resources Company
Lea Federal #29
1310' FNL & 1948' FWL, Sec. 24, T20S, R34E
Lea County
NM01747
API 3002539077

**Condition of Approval For Drilling below 9 5/8 casing shoe and testing of
BOP/BOPE**

The variance is approved with the following stipulations

1. All components will be tested to full working PSI except for annular which will be tested to 50% of stack working PSI as per Onshore Order #2.
2. All tests will be conducted as per APD/COA's (Conditions of Approval), Onshore Order #2 and API RP 53 Sec. 17.
3. See attached choke manifold and BOP configuration to be used.



10M & 15M CHOKE MANIFOLD EQUIPMENT—CONFIGURATION OF CHOKES MAY VARY
 [53 FR 49661, Dec. 9, 1988 and 54 FR 39528, Sept. 27, 1989]

Kraftbit PO BOX 800
TULSA OK 74101 1-800-331-7290

8301-B

Lea Fed Unit #29

10/10/08
12:20 PM
CST

