

SUNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

NOV 07 2007

FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007Lease Serial No.
NM-0631

If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL OR REENTER **OCD-ARIESIA**

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No.	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		8. Lease Name and Well No. 36837 Federal "11" Well #8	
2. Name of Operator SAMSON RESOURCES COMPANY ATTN: BRAD P. HARGROVE (20165)		9. API Well No. 30-025-38611	
3a. Address Two West Second Street, Tulsa, OK 74103	3b. Phone No. (include area code) (918) 583-1791	10. Field and Pool, or Exploratory Lea Bone Springs/Morrow	
4. Location of Well (Report location clearly and in accordance with any State requirements*) At surface 660' FNL & 660' FWL Per SN Attached Dated 9-27-07 At proposed prod. zone same Unit D Capitan Controlled Water Basin		11. Sec., T. R. M. or Blk. and Survey or Area Section 11, T-20-S, R-34-E	
14. Distance in miles and direction from nearest town or post office* 24 miles SW of Hobbs, NM		12. County or Parish Lea	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'	16. No. of acres in lease 320	17. Spacing Unit dedicated to this well 160 acres	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A	19. Proposed Depth 13,900'	20. BLM/BIA Bond No. on file NOV 2007 Received	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3652' GL	22. Approximate date work will start* 8/15/2007	23. Estimated duration Hobbs 35-40 days	
24. Attachments			

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Kenneth C. Dickeson	Date 6-25-07
Title Authorized Agent		
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed) /s/ Don Peterson	Date NOV 5 2007
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

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, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

*(Instructions on page 2)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL**Conditions of Approval -- Approval for Drilling only Cannot produce until Non-Standard location is approved by the OCD Santa Fe office.**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED**Oil Conservation Division**
Conditions of approval: Approval for drilling ONLY
--- CANNOT produce Downhole Commingled until
DHC is approved in Santa Fe.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

FORM APPROVED
OMB NO 1004-0137
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

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 - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Samson Resources Company

3a. Address

200 N. Loraine St., Ste 1010; Midland, TX 79701

3b. Phone No. (include area code)

(432) 683-7063

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

510' FNL & 810' FWL Sec. 11-20S-34E

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Federal 11-20-34

No. 8

9. API Well No.

10. Field and Pool, or Exploratory Area
Lea Undsg;Morrow

11. County or Parish, State

Lea 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

- | | | | |
|--|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <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 Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations 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 recompleat 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 requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Change Location:

From 660' FNL & 660' FWL

To: 510' FNL & 810' FWL



14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Duke Roush

Title Landman

Signature

Duke Roush

Date 9/27/07

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ Don Peterson

Title FIELD MANAGER

Date NOV 5 2007

Conditions of approval, if any, are attached. Approval of this notice 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.

Office CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, 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

DISTRICT I

1626 N. FRENCH DR., BOBBS, NM 88240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Bravos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-38611	Pool Code 80040	Pool Name Lea Penn (GAS)
Property Code 36837	Property Name FEDERAL 20-34-11	Well Number 8
OGRIID No. 20165	Operator Name SAMSON RESOURCES	Elevation 3654'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	11	20-S	34-E		510	NORTH	810	WEST	LEA

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 160	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

<p>SEE DETAIL</p> <p>DETAIL</p> <p>3655.0' 3653.9'</p> <p>600' 600'</p> <p>3650.6' 3651.6'</p> <p>GEODETTIC COORDINATES NAD 27 NME</p> <p>Y=580507.0 N X=745454.1 E</p> <p>LAT.=32.593391' N LONG.=103.536368' W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Duke Roush</i> 11/15/07 Signature Date</p> <p>Duke Roush Printed Name</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>SEPTEMBER 2007 NEW MEXICO Date Surveyed Signature Seal of Professional Surveyor 12641 11/07 Certificate No. GARY EIDSON 12641</p>
--	---

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-38611	Pool Code 37570	Pool Name Lea Bone Spring
Property Code 36837	Property Name FEDERAL 20-54-11	Well Number 8
GRID No. 2D165	Operator Name SAMSON RESOURCES	Elevation 3654'

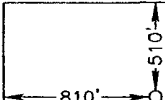
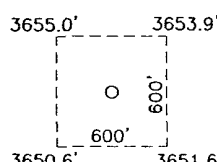
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	11	20-S	34-E		510	NORTH	810	WEST	LEA

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 80	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

 <p style="text-align: center;"><u>SEE DETAIL</u></p>	<div style="text-align: center; margin-bottom: 20px;"> <p><u>DETAIL</u></p>  </div> <div style="text-align: center;"> <p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=580507.0 N X=745454.1 E</p> <p>LAT.=32.593391° N LONG.=103.536368° W</p> </div>
<div style="display: flex; justify-content: space-between;"> <div style="width: 65%;"> <p>OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 60%;"> <p><u>Duke Roush</u></p> <p>Signature</p> </div> <div style="width: 35%;"> <p><u>10/17/07</u></p> <p>Date</p> </div> </div> <p style="margin-top: 10px;"><u>Duke Roush</u></p> <p>Printed Name</p> </div> <div style="width: 30%; border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <div style="text-align: center; margin-top: 20px;"> <p>GARY EIDSON</p> <p>2007</p> <p>Date Surveyed</p> <p>Signature & Seal</p> <p>Professional Surveyor</p> <p>12641</p> <p><u>Gary Eidson</u></p> <p>10/17/07</p> <p>PROFESSIONAL SURVEYOR</p> </div> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 60%;"> <p>Certificate No. GARY EIDSON</p> </div> <div style="width: 35%;"> <p>12641</p> </div> </div>	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

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

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 <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NM-0631
2. Name of Operator Samson Resources Company (918) 583-1791	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. Two West 2nd Street, Tulsa, OK 74103	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FNL & 660' FWL, Section 11, T-20-S, R-34-E, Lea County, NM	8. Well Name and No. Federal "11" #8
	9. API Well No.
	10. Field and Pool, or Exploratory Area Morrow/Lea Penn
	11. County or Parish, State Lea County, NM

12. 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"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Change of field name and depth</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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.)

Sundry submitted to change field name and depth of well.

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

Signed

Title

Date

(This space for Federal or State office use)

/s/ Don Peterson

FIELD MANAGER

Approved by

Title

Date

Conditions of approval, if any:

NOV 5 2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

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

5. Lease Designation and Serial No.
NM-0631

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Federal "11" #8

9. API Well No.

10. Field and Pool, or Exploratory Area
Bone Spring/Morrow

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 (918) 583-1791

3. Address and Telephone No.

Two West 2nd Street, Tulsa, OK 74103

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

**660' FNL & 660' FWL, Section 11, T-20-S, R-34-E,
Lea County, NM**

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

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

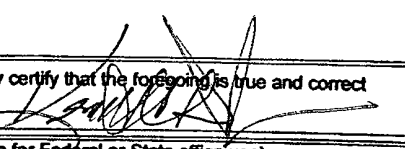
- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
- ☐ Change of Plans
☒ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(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 desires to install a three-phase electric overhead powerline to serve the Federal 11 #8 Well. The route for the powerline is shown on the attached plat. An archaeological report for this project will be submitted under separate cover.

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

Signed 
(This space for Federal or State office use)
/s/ Don Peterson

Title **KENNETH C DICKESON, AGENT**

Date **6-25-07**

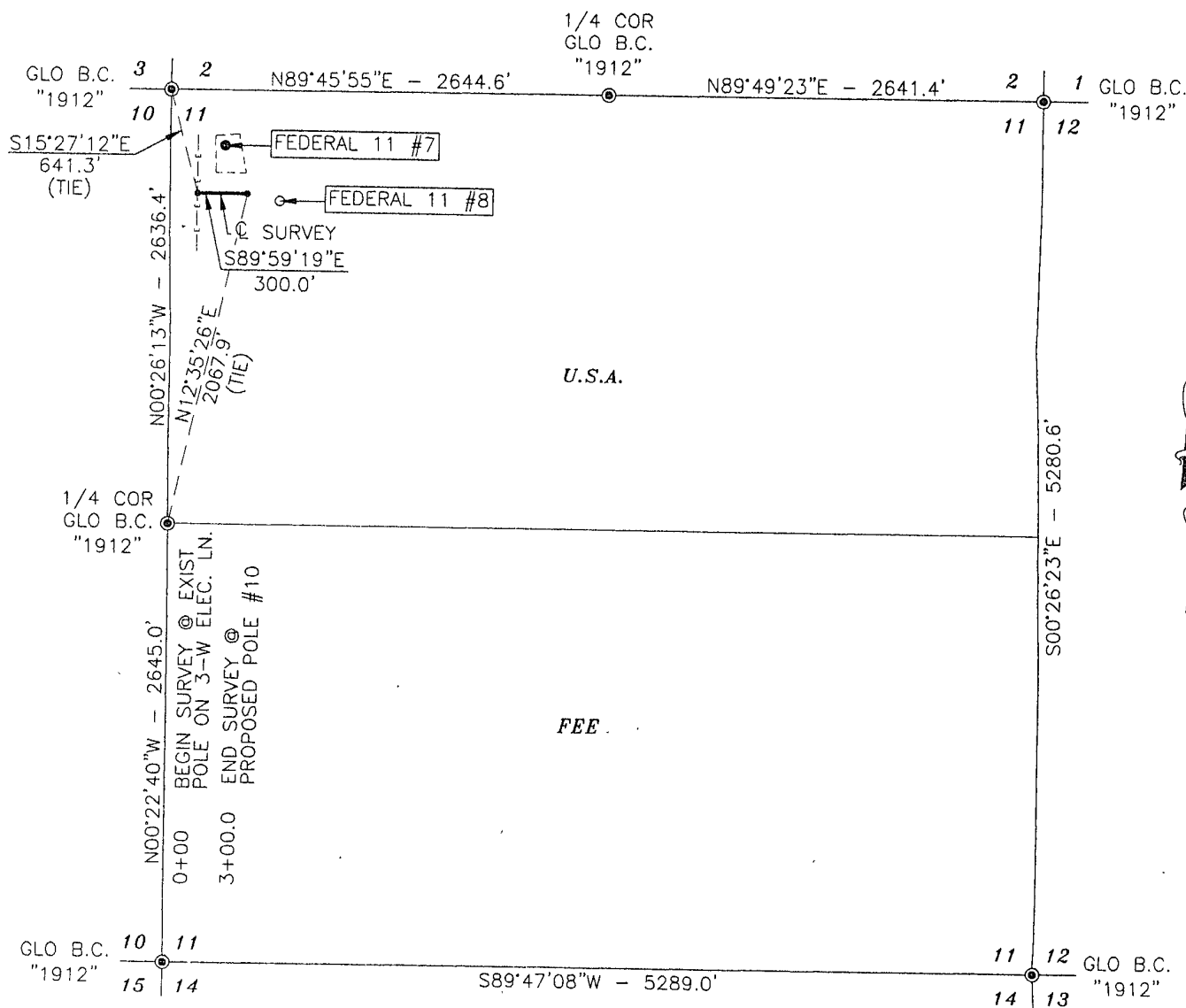
Approved by _____
Conditions of approval, if any:

Title **FIELD MANAGER**

Date **NOV 5 2007**

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.

SECTION 11, TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY,
NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 50.0 FEET WIDE AND 300.0 FEET OR 0.057 MILES IN LENGTH CROSSING USA LAND IN SECTION 11, TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPM, LEA COUNTY, NEW MEXICO AND BEING 25.0 FEET LEFT AND 25.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

NOTE: BEARINGS SHOWN HEREON ARE
MERCATOR GRID AND CONFORM TO THE
NEW MEXICO COORDINATE SYSTEM "NEW
MEXICO EAST ZONE" NORTH AMERICAN
DATUM 1983. DISTANCES ARE SURFACE
VALUES

I HEREBY CERTIFY THAT I DIRECTED AND AM
RESPONSIBLE FOR THIS SURVEY. THAT THIS SURVEY IS
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE
AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET
THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

GARY G. EIDSON, N.M.P.S. No. 12641

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

1000 0 1000 2000 FEET
Scale: 1"=1000'

SAMSON RESOURCES

SURVEY OF AN ELECTRIC LINE CROSSING
SECTION 11, TOWNSHIP 20 SOUTH, RANGE 34 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 04/03/07	Sheet 1 of 1 Sheets
W.O. Number: 07.11.0433	Drawn By: J.R.
Date: 04/17/07	DISK:CD#7 07110433_ELEC

APPLICATION FOR DRILLING

SAMSON RESOURCES COMPANY

Federal 11 Well No. 8
-660' FNL & 660' FWL, Section 11, T20S, R34E, 510' 38' LEA COUNTY, NEW MEXICO
Lease No.: NM-0631
(Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Samson Resources Company submits the following items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.
2. The estimated tops of geologic markers are as follows:

Rustler	1600'
Yates	3500'
Seven Rivers	3920'
Delaware Sd	5475'
Bone Spring	8200'
Wolfcamp	11000'
Strawn	12140'
Atoka	12600'
Morrow	13000'

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Surface water between 100' - 300'.
Oil: Possible in the Delaware 5600'- 6000'.
Gas: Possible in the Atoka below 12,295' and Morrow 12,830'.

4. Proposed Casing Program:

HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT	SETTING DEPTH	QTY OF CEMENT
17 1/2"	13-3/8"	48.0#	H-40	BT&C	0-1650'	1500 sx
12 1/4"	9-5/8"	40.0#	HCK-55	BT&C	1650-5475'	1250 sx
8 3/4"	5 1/2"	20.0#	P-110	LT&C	5475-13900'	1000 sx

5. Minimum Specifications for Pressure Control Equipment:

5M
A NU 13-5/8" *10M* Double Gate *BOP* over single w/13 5/8" 5M Hydril annular preventer will be installed on the 13-3/8" before drilling 12 1/4" and 8 3/4" holes and operated as a 5000 psi system. Will perform a 3M test on the casing and BOP before drilling 12 1/4" hole and a 5M test before drilling the 8 3/4" hole. *PIPE RINGS*

6. MUD PROGRAM:

DEPTH	DESCR	MUD WEIGHT	VISCOSITY	W/L CONTROL
0-1600'	Fresh water	8.4 ppg		
1600-5400'	Brine water	10.0 ppg		
5400-13900'	Cut Brine/Water	8.7-11.5 ppg		

7. Auxiliary Equipment: Blowout Preventer, flow sensors and stabbing valve.

8. Testing, Logging, and Coring Program:

Drill Stem Tests: None unless conditions warrant.
Logging: 5,600' to T.D.: CNL-DNL w/GR-Cal. 5,600' to Surface: CNL-GR
Coring: Rotary sidewall if dictated by logs.

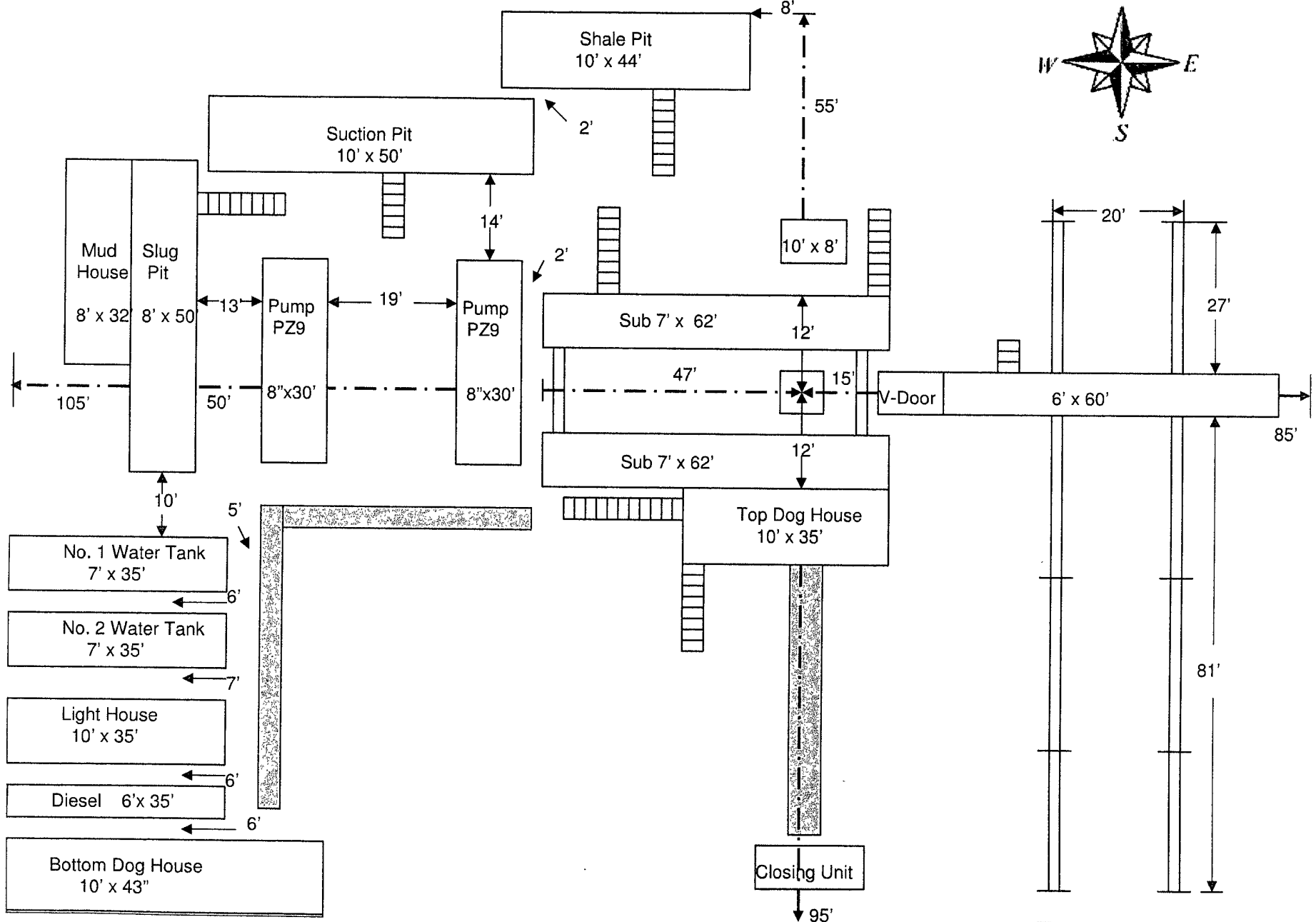
9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated evacuated BHP = 5856 psi and surface pressure of 2928 psi with a temperature of 193°.

10. H₂S: None expected. None in existing wells in close vicinity, but the Mud Log Unit will be cautioned to use a gas trap to detect H₂S and if any is detected the mud weight will be increased along with H₂S inhibitors sufficient to control the gas.

11. Anticipated starting date: *August 15, 2007.*

Anticipated completion of drilling operations: *Approximately 6 weeks.*

McVay Drilling Rig No. 5





August 7, 2007

BUREAU OF LAND MANAGEMENT
Attn: Ms. Cheryle Ryan
620 E. Greene Street
Carlsbad, NM 88220-6292

RE: Sundry Notice and APD documentation

3162.4

NM0631

SAMSON RESOURCES COMPANY -- Federal 11 #8 Well

510 660' FNL & 660' FWL Section 11, T-20-S, R-34-E, N.M.P.M.,

810 LEA COUNTY, NEW MEXICO

Dear Ms. Ryan:

In accordance with your letter dated August 2, 2007, enclosed herewith is the information, along with corresponding copies, that hopefully will satisfy the noted deficiencies as follows:

1. Use the attached BOP schematic and disregard the previous two that were submitted (see attached)
2. Casing will be new
3. Cement yields are:
 - a. Surface - Lead 1.98. Tail 1.35. — *1200*
 - b. Intermediate - Lead 2.76. Tail 1.32. — *300*
 - c. Production - Lead 2.45. Tail 1.67. — *300*
4. If the BHP is correct the mud weight needed would be 8.1 ppg. However, if some sands are encountered that are not depleted we may need MW's up to 9.6 ppg.
5. Operator certification on a separate page to certify entire APD (see attached)

From operator

Also enclosed herewith for your further handling is one original Sundry Notice and six copies for the captioned well. This sundry changes the field and depth of the well. Should you have any questions, please contact me at (432) 682-4002.

Yours truly,

Ken Dickeson
Ken Dickeson

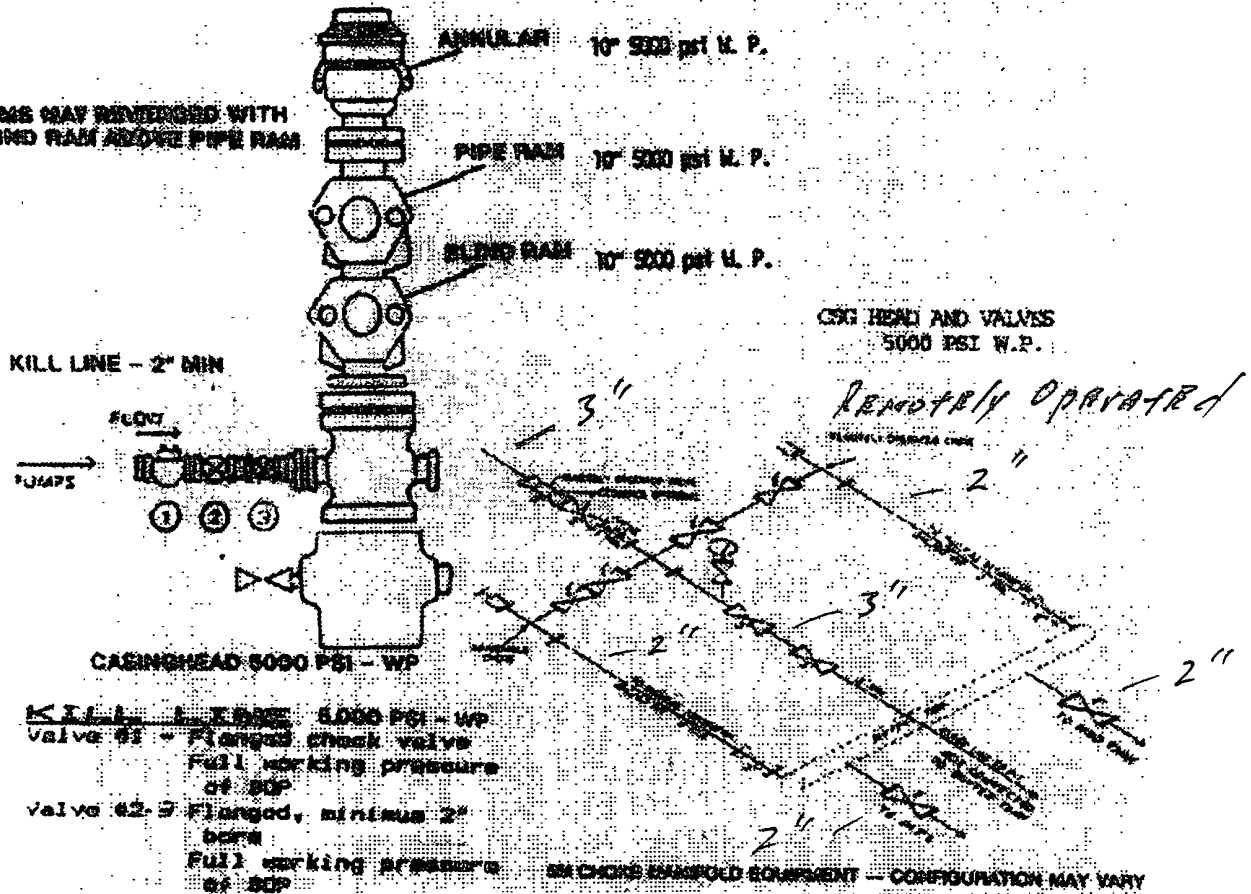
Enclosures

Tblm3(fed11-8)

*8/9/07
MAX ANTICIPATED PRESSURE
6550 psi @ 12600'*

5000 PSI

RAMS MAY BE MIXED WITH
BLIND RAM AND/OR PIPE RAM



GENERAL RULES AND RECOMMENDATIONS

All lines to manifold are to be at right angles (90 deg.). No 45 deg. angles are used.

Blind flanges are to be used for blanking.

All studs and nuts are to be installed on all flanges.

Choke manifold may be screwed connections down stream of choke

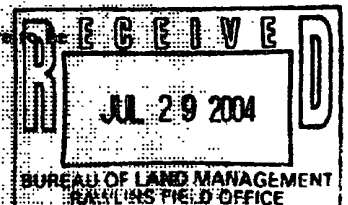


EXHIBIT "B"

SAMSON RESOURCES COMPANY

<i>Federal 11 Well No. 8</i>
660' FNL & 660' FWL, Section 11, T20S, R34E, 510' 310' LEA COUNTY, NEW MEXICO
Lease No.: NM-0631
(Development Well)

N.D.U.S.A.

MANIFOLD SETUP

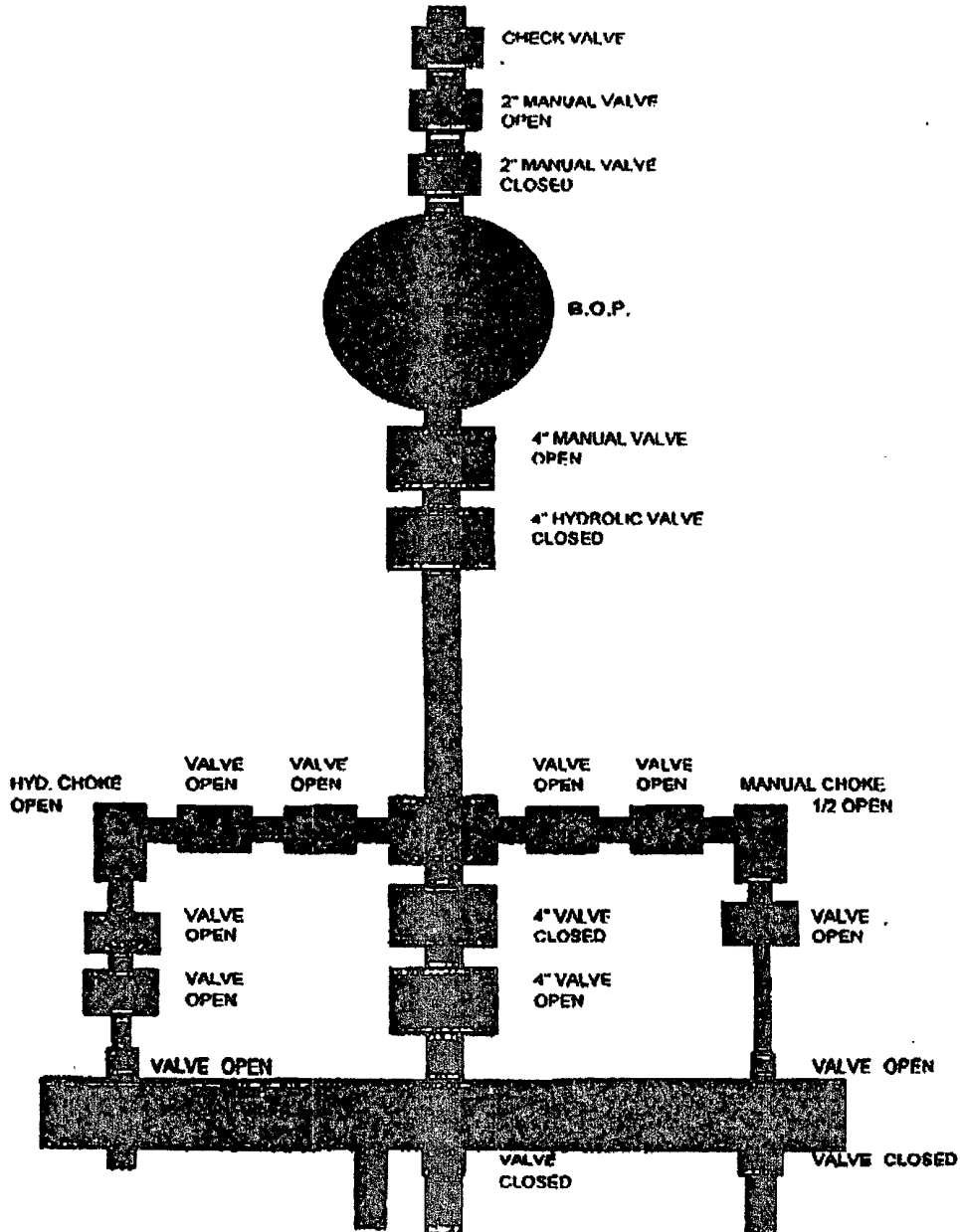


EXHIBIT "E"

SAMSON RESOURCES COMPANY

Federal 11 Well No. 8
660' FNL & 660' FWL, Section 11, T20S, R34E, 510' ^{510'} LEA COUNTY, NEW MEXICO
Lease No.: NM-0631
(Development Well)

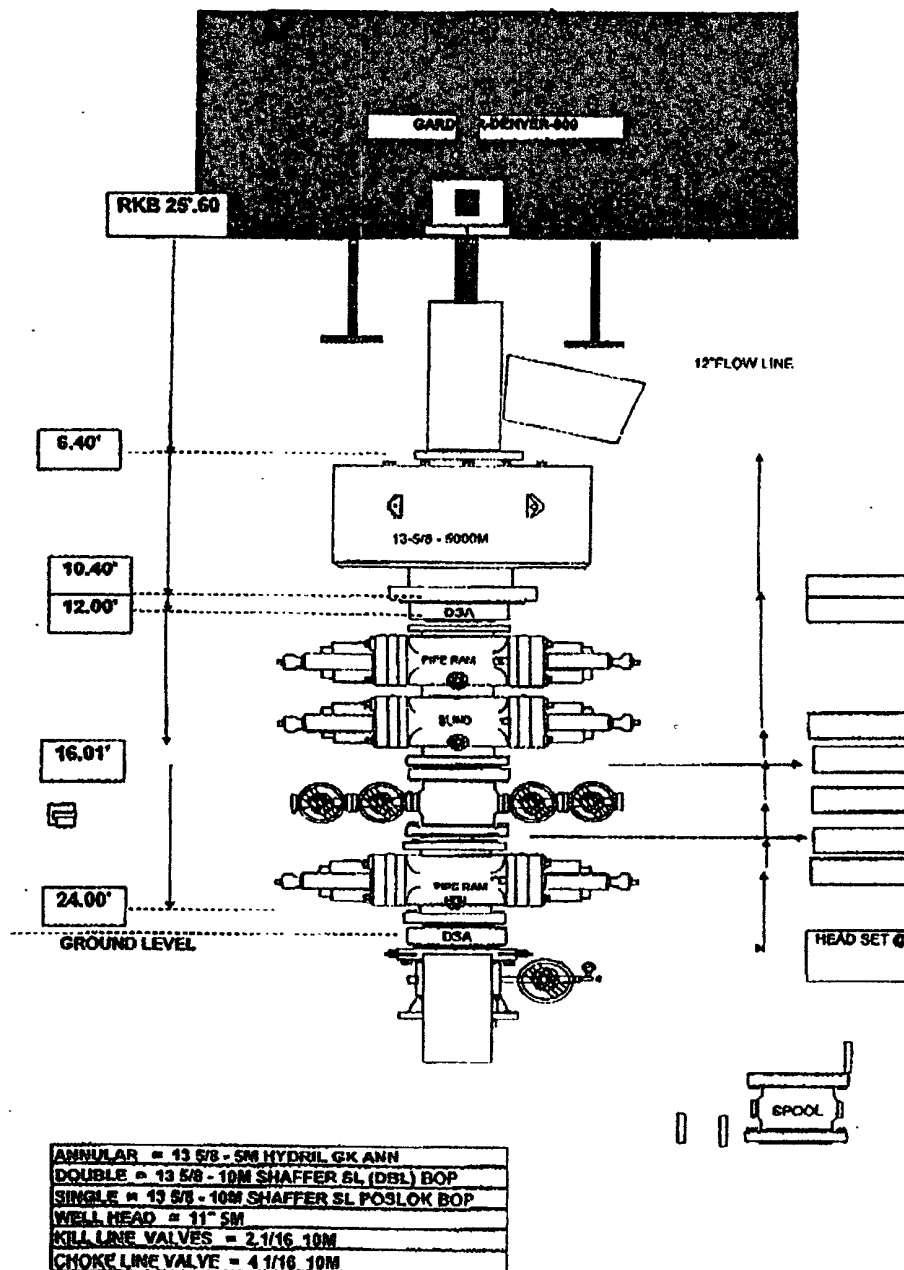
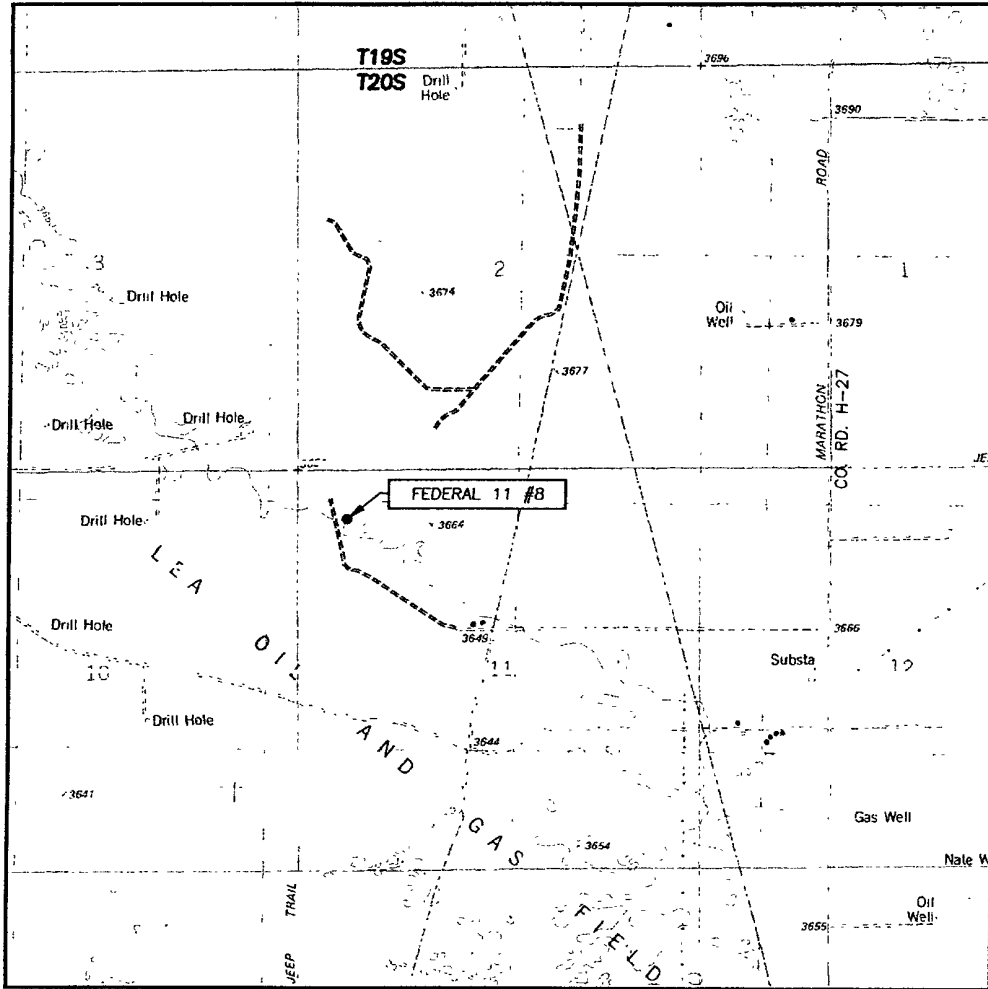


EXHIBIT "A"

SAMSON RESOURCES COMPANY

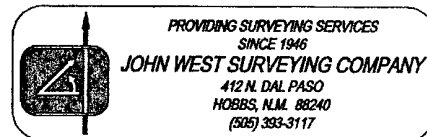
Federal 11 Well No. 8
660' FNL & 660' FWL, Section 11, T20S, R34E, 510' <i>FA</i> 810' LEA COUNTY, NEW MEXICO
Lease No.: NM-0631
(Development Well)



SCALE: 1" = 2000'

CONTOUR INTERVAL:
LEA, N.M. - 10'

SEC. 11 TWP. 20-S RGE. 34-E
 SURVEY N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 660' FNL & 660' FWL
 ELEVATION 3652'
 OPERATOR SAMSON RESOURCES
 LEASE FEDERAL 11
 U.S.G.S. TOPOGRAPHIC MAP
LEA, N.M.



PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Samson Resources
LEASE NO.:	NM-0631
WELL NAME & NO.:	Federal 11 # 8
SURFACE HOLE FOOTAGE:	510' FNL & 810' FWL
BOTTOM HOLE FOOTAGE:	
LOCATION:	Section 11, T. 20 S., R 34 E., NMPM
COUNTY:	Lea County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ **Lea County**

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(505) 393-3612

1. A Hydrogen Sulfide (H₂S) Drilling Plan is N/A.
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
3. When floor controls are required, (3M or Greater) controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

B. CASING

1. The 13.375 inch surface casing shall be set in the Rustler formation @ approximately 1650 feet and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement).
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial action will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 9.625 inch intermediate casing is:
☒ Cement to surface. If cement does not circulate see B.1.a-d above.
3. The minimum required fill of cement behind the 5.5 inch production casing is:
☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
 - e. The formation below the 9.625 inch casing shoe shall be tested per Onshore Order 2.III.B.1.i.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. HAZARDS

1. Our geologist has indicated that there is potential for lost circulation in the Red Beds, Capitan Reef, Delaware and the Bone Springs.
2. Our geologist has indicated that there is potential for abnormal pressure in the Wolfcamp formation and the Pennsylvanian system.

Engineering can be reached @ 505-706-2779 for variances.

FWright: 9/4/07 (date)

BLM Serial Number: NM-0631
Company Reference: Samson Resources Company
Well No. & Name: Federal "11" #8

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
5. Powerlines shall be constructed in accordance to standards outlined in "Suggested Practices for Raptor Protection on Powerlines, " Raptor Research Foundation, Inc., 1981. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication are "raptor safe." Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large

perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.
- See attached reclamation plans.