Form 3160-3 August 1999) UNITED STATES DEPARTMENT OF THE 1	exico Oil Conservatio	CAR EVIVISIUM	District T	
UNITED STATES	1625 N. Frenc	h Drive	FORM APP OMB No. 10	ROVED 104-0136
	Hobbs, NM	88240	Expires Novem	ver 30, 2000
	NTERIOR		5. Lease Serial No. NM-96531 06	31
BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D	•		6. If Indian, Allottee or	
Ia. Type of Work: 🕢 DRILL 🔲 REENTE	;R		7. If Unit or CA Agreem	ient, Name and No.
1b. Type of Well: 📓 Oil Well 🗋 Gas Well 🛄 Other	Single Zone	Multiple Zone	8. Lease Name and Well Federal 11-20-	No. •34, Well #9
2. Name of Operator			9. API Well No.	
Samson Resources			30-025-	
3a. Address	3b. Phone No. (include area of (918) 591-1822	:0ae)	10. Field and Pool, or Ex Lea Bone Spri	
Samson Plaza-Two W. 2nd St. Tulsa, OK 74103 4. Location of Well (Report location clearly and in accordance with			11. Sec., T., R., M., or BI	
	nitC		Sec. 11-R205	-R34E
	Hen Controlled Water			
14. Distance in miles and direction from nearest town or post office		-	12. County or Parish	13. State
50 miles northeast of Carlsbad, NM		17 5	Lea g Unit dedicated to this we	<u>NM</u>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 8101	16 No. of Acres in lease 320	17. Spacin 80	-	
18. Distance from proposed location*	19, Proposed Depth	20. BLM/	BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, R. 1184'	10,500'	NM-20		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3663' GL	22 Approximate date work Feb. 1, 200		23. Estimated duration 5 weeks	
	24. Attachments			0
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syster SUPO shall be filed with the appropriate Forest Service Office). 	m Lands, the 6. Such othe	certification.	formation and/or plans as	may be required by the
25. Signature /	Name (Printed Typed			Jate
Deorges Amide	George R. Smith	1	·	12/28/04
Title				
Title Agent for Samson Resources Assessed by (Standurg)	Name (Printed/Typed	"Tony I H	orroll	^{)ate} FEB 1 6 200
Title Agent for Samson Resources Approved by (Signature) /s/ Tony J. Herrell	/s/	Tony J. H		
Title Agent for Samson Resources Approved by (Signature) /s/ Tony J. Herrell Title FIELD MANAGER	Office CA	Tony J. H RLSBAD	FIELD OFFIC	E
Title Agent for Samson Resources Approved by (Signature) /s/ Tony J. Herrell	Office CA	Tony J. H RLSBAD e rights in the subje	FIELD OFFIC	E the applicant to conduct

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DISTRICT I Energy, Minerals and Natural Resources Department 1625 M. FRENCH DR., RORRS, NM 88240 Form C-102 Revised JUNE 10, 2003 DISTRICT II OIL CONSERVATION DIVISION Submit to Appropriate District Office 1901 W. GRAND AVERUSE, ARTESIA, NM 68210 State Lease - 4 Copies 1220 SOUTH ST. FRANCIS DR. Fee Lease ~ 3 Copies DISTRICT III Santa Fe. New Mexico 87505 1000 Rio Brazos Rd., Astec, NM 87410 DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT AMENDED REPORT 1220 S. ST. FRANCES DR., SANTA FE, NM 87505 API Number Pool Code Pool Name 37570 Lea Bone Spring 30-025.370 **Property** Code **Property** Name Well Number 991 FEDERAL 11-20-34 9 OGRID No. **Operator** Name Elevation 20165 SAMSON RESOURCES 3663 Surface Location UL or lot No. Lot Idn Feet from the North/South line Feet from the Section Township Range Rast/West line County С 20-S 34-E 810 NORTH 2130 WEST 11 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 J Joint or Infill **Consolidation** Code Order No. 80 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 òo _ 3661 contained herein is true and complete to the 3665.1 best of my knowledge and belief. 8 2130 500'_ 3656.7 3655 Signature George R. Smith, agent GEODETIC COORDINATES Printed Name NAD 27 NME for Samson Resources Y=580212.5 N Title X=746776.2 E D ecember 28, 2004 Date LAT.=32°35'33.20" N LONG.=103'31'55.50" W 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 supervison, and that the same is true and correct to the best of my belief. NOVE IN Date Surveyed within the meet of Scallor Child NOVEMBER 30, 2004 IA Signature & Seal of C JA MEL 06/04 555 Certificate No. GARY BIDSON 12641 Manna Concernation

State of New Mexico

APPLICATION FOR DRILLING

SAMSON RESOURCES Federal 11-20-34, Well No. 9 810' FNL & 2130' FWL, Sec. 11-T20S-R34E 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 Co. 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	1,610'	Queen	4,860'
Top of Salt	1,655'	Delaware	5,500'
Base of salt	3,133'	Bone Spring	8,195'
Yates	3,422'	2 nd Bone Spring	10,100'
Capitan Reef	3,821'	T.D.	10,500'

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 below 5,500' and the Bone Spring below 9,450'.

Gas: Possible in the Delaware below 5,500' and the Bone Spring below 9,450'.

4. Proposed Casing Program:

<u>HOLE SIZE</u>	CASING SIZE	E WEIGHT	GRADE	JOINT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5#	J-55	BT&C	0" - 1,650'	Circ. 1500 sx. "C" to surface
11"	8 5/8"	32.0#	HCK-55	LT&C	0' - 5,500'	Circ.750 sx "C" & 425 sx "H"
7 7/8"	5 1/2"	20.0#	P110	LT&C	0' - 10,500'	750 sx Zoneseal & 260 sx Super H TOC
@ 5.300'.						•

5. Minimum Specifications for Pressure Control Equipment:

A 11" 10,000 psi WP Shaffer, LWS Double Gate BOP will be installed on the 13 3/8" and operated as a 5000 psi system. The casing and BOP will be tested as per Onshore Oil & Gas Order #2 before drilling out with the 11" and 7 7/8".

6.	MUD PROGRAM:	·····	MUD WEIGHT	VIS.	W/L CONTROL
	0' - 1,650':	Fresh water mud:	8.4 - 9.2 ppg	28 - 29	No W/L control
	1,650' - 5,040':	Brine mud:	10.0 - 10.4 ppg	26 - 29	No W/L control
		Fresh water if lost circ	culation is encountered.		
	5040' - 10500':	Cut brine:	9.8 – 10.0 ppg	26 – 29	No W/L control

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

APPLICATION FOR DRILLING

SAMSON RESOURCES Federal 11-20-34, Well No. 9 810' FNL & 2130' FWL, Sec. 11-T20S-R34E 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 Co. 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	1,330'	Base of Reef	5,045'
Top of Salt	1,420'	Delaware	5,050'
Base of salt	3,166'	Bone Spring	8,195'
Yates	3,382'	2 nd Bone Spring	10,100'
Capitan Reef	3,821'	T.D.	10,500'

- 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', Bone Spring 9650'- 10,300'
 - Gas: Possible in the Delaware below 5500' and the Bone Spring below 9,450'.

4. Proposed Casing Program:

HOLE SIZE	CASING SIZE	<u>: Weight</u>	GRADE	JOINT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5#	J-55	BT&C	0" - \1,375'	Circ. 1500 sx. "C" to surface
11"	8 5/8"	32.0#	HCK-55	LT&C	0' - 5,040'	Circ.750 sx "C" & 425 sx "H"
7 7/8"	5 1/2"	20.0#	P110 /	LT&C	0' - 10,500'	750 sx Zoneseal & 260 sx Super H TOC
@ 4,840' .					í 🔪	

5. Minimum Specifications for Pressure Control Equipment:

A 11" 10,000 psi WP Shaffer, LWS Double Gate BOP will be installed on the 13 3/8" and operated as a 5000 psi system. The casing and BOP will be tested as per Onshore Oil & Gas Order #2 to the maximum of 1500 psi. (IIIBh) Casing and BOP will be tested before drilling out with the 11" and 7 7/8".

6.	MUD PROGRAM:		MUD WEIGHT	VIS.	W/L CONTROL
	0' - 1,375':	Fresh water mud:	8.4 - 9.2 ppg	28 - 29	No W/L control
	1,375' - 5,040':	Brine mud:	10.0 - 10.4 ppg	26-29	No W/L control
		/Fresh water if lost circi	ulation is encountered.		
	5040' - 10500': /	Cut brine:	9.8 – 10.0 ppg	26 - 29	No W/L control
	5040 - 10500 :	Cut orine:	9.8 – 10.0 ppg	26 - 29	No W/L control

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

8. Testing, Logging, and Coring Program:

Drill Stem Tests: None unless conditions warrant. Logging: 5,500' to T.D.: CNL-DNL w/GR-Cal. 5,500' 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 = 4200 psi and surface pressure of 2904 psi with a temperature of 165°.

10. H_2S : None expected. None in existing wells in close vicinity, but the Mud Log Unit will cautioned to use a gas trap to detect H_2S and if any is detected the mud weight will be increased along with H_2S inhibitors sufficient to control the gas to cover this contingency.

11. Anticipated starting date: February 1, 2005. Anticipated completion of drilling operations: Approximately 4 - 5 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

SAMSON RESOURCES Federal 11-20-34, Well No. 9 810 FNL & 2130' FWL, Sec. 11-R20S-R34E Lea County, New Mexico Lease No.: NM-06531 (Development Well)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, to be followed in rehabilitating the surface environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a USGS/BLM Topo map showing the location of the proposed well as staked. The well site location is approximately 50 road miles northeast of Carlsbad, New Mexico. Traveling east from Carlsbad there will be approximately 49.3 miles of paved highway and 1 mile of gravel ranch/oilfield road.
- B. Directions: Travel east from Carlsbad, NM on U.S. Highway 62/180 for approximately 46 miles to Marathon Road. Turn south on Marathon Road for 3.3 miles. Turn west at a Read & Stevens and a Samson sign, crossing a cattle guard, and continue west for 1 mile, just west of the tank battery of the Federal 11-20-34, #1. The proposed access road will start on the north (right) side of the road and will run north for 1100 feet to the southwest corner of the proposed well site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The proposed access road is approximately 1100 feet in length and 12 foot in width. The access road is color coded in red on Exhibit "A ".
- B. Construction: The proposed access road will be constructed by grading and topping with compacted caliche and will be properly drained.
- C. Turnouts: There will be one turnout increasing the width to 20 feet for passing.
- D. Culverts: None required.
- E. Cuts and Fills: Some minor cuts on small dunes as approaching location.
- F. Gates, Cattle guards: None required.
- G. Off Lease R/W: None required.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a two-mile radius are shown on Exhibit "C".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. Samson Resources has production facilities in the unit at this time.
- B. If the well proves to be commercial, the necessary production facilities, gas production-process equipment, and tank battery, if required, will be installed on the drilling pad. A 2" steel 2100 psi flow line will run on the surface parallel to the access road back to the #1 tank battery.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing and proposed access roads.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for the access road and well site pad will be obtained on location, if available, or from an approved private pit located in the NE4SE4 of Sec. 35-T20S-R34E. No surface materials will be disturbed except those necessary for actual grading and construction of the drill site and access road.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock and wildlife from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste paper, garbage and junk will be contained in trash bins to prevent scattering and will be removed for deposit in an approved sanitary landfill within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged 500' X 500'.
- B. Mat Size: 340' X 215', plus 175' X 175' mud pits. The pits will be on the north.
- B. Cut & Fill: There will be a 3-foot cut in the center and northwest with fill to the south.
- D. The surface will be topped with compacted caliche and the mud pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not required for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing a condition as possible
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled as soon as they are dry enough to work after abandonment.

11. OTHER INFORMATION:

- A. Topography: The proposed well site and access road is located in an area of 3 6 foot sand dunes and deflation basins, which is part of the Querecho Plains. The location has a northerly slope of .8% from an elevation of 3663'.
- B. Soil: The topsoil on the well site and access road is light brown colored fine sand. The soil is of the Kermit soils and Dune land series.
- C. Flora and Fauna: The vegetation at the well site is a sparse grass cover of three-awn, dropseed, bluestem, muhly and other miscellaneous native grasses along with plants of mesquite, yucca, sage, shinnery oak brush, broomweed, cacti, and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None.
- E. Residences and Other Structures: None, but existing oil field facilities.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed well site and access road are on Federal surface and minerals.
- H. There is no evidence of archaeological, historical or cultural sites in the staked area. Archaeological Survey Consultants, P.O. Box 2285, Roswell, NM 88202 is conducting an archaeological survey and their report will be submitted to the appropriate government agencies.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Todd Wiley Samson Resources Samson Plaza-Two West Second St. Tulsa, OK 74103-3103 Office Phone: (918) 591-1531

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the 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 Samson Resources and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

December 28, 2004

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George R. Smith Agent for: Samson Resources



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EXHIBIT "D" SAMSON RESOURCES CO. Federal 11-20-34, Well No. 9 Pad & Pit Layout



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EXHIBIT "E" SAMSON RESOURCES CO. Federal 11-20-34, Well No. 9 BOP Specifications

p.1

PAGE 1/1 * RCVD AT 6/7/2004 11:45:45 AM [Central Daylight Time] * SVR:FAXSRVR1/0 * DNIS:7531 * CSID:14326648829 * DURATION (mm-ss):01-20



14326648829

State of New Mexico **Energy Minerals and Natural Resources**

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

Form C-144 March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office

Is pit or below-grade tan	de Tank Registration or Clos k covered by a "general plan"? Yes r below-grade tank X Closure of a pit or below-	No X
Operator: Samson Resources	Telephone: (918) 591-1531	e-mail address:
Address: Samson Plaza Two W. Second St. Tulsa, OK 74103 Facility or well name: Federal 11-20-34, Well #9 County: Lea Latitude 32'35'33.20"_N Lor	_U/L or Qtr/Qtr NE4NW4Sec 11T_2(ngitude 103'31'55.50"_WNAD: 1927 X 19	DSR34E
Indian Pit Type: Drilling X Production] Disposal] Workover] Emergency] Lined X Unlined] Liner type: Synthetic X Thickness 12 mil Clay] Volume 10,000_bbl+	- D25-37093 Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes [] I	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)
	Ranking Score (Total Points)	-0-
If this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks (2) In	dicate disposal location:

m of the facility showing the pit's rela equipment and tanks. (2) Indicate disposal loc

onsite offsite I If offsite, name of facility . (3) Attach a general description of remedial action taken including remediation start date and

end date. (4) Groundwater encountered: No 🗌 Yes 🗌 If yes, show depth below ground surface ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines X, a general permit [], or an (attached) alternative OCD-approved plan]. Date: December 28, 2004

Printed Name/Title George R. Smith, agent Signature

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

PETROLEUM ENGINEER Date: 1 8 2005 Printed Name Title

Signature