OPER. OGRID NO.	NILC	listrict		570 00
Form 3160-3 (August 1999) PROPERTY NO. 34	1049	HSUF BCU	FORM ARPROVED OMB No. 4004-013	ANSI.
POOL CODE S/	511		Expires November 30, 2	2000
			e Serial No.	
EFF. DATE <u>8-2-0</u>	4	<u>NM05</u> 6. If Ind	lian, Allottee or Tribe	Name
APPLICA APINO 30-025-	36797	<b>4</b>		
la. Type of Work: 🖌 DRILL 🔲 REENTER		7. If Un	it or CA Agreement, Na	ame and No.
1b. Type of Well: Oil Well 🖾 Gas Well 🗋 Other	🔲 Single Zone 🔲 Multig		Name and Well No. ager 11 Fed. Com.,	, #1
2. Name of Operator		9. API V	Well No. -025-3674	an
Samson Resources 3a. Address	3b. Phone No. (include area code)		and Pool, or Explorato	
Samson Plaza–Two W. 2nd St. Tulsa, OK 74103	(918) 591-1822		enn Gas	
4. Location of Well (Report location clearly and in accordance with a	ny State requirements. *)	11. Sec.,	T., R., M., or Blk. and	Survey or Area
At surface 810' FSL & 660' FWL	<b>D</b> 444 <b>D D</b>			x
At proposed prod. zone same	R-111-P Peterk	Sec. 11	-T20S-R33E	
14. Distance in miles and direction from nearest town or post office*		12. Coun	ty or Parish	13. State
37 miles northeast of Carlsbad, NM 15. Distance from proposed*		Lea	ante of the distance	
location to nearest property or lease line, ft.	16. No. of Acres in lease	17. Spacing Unit dedi	cated to this well 22	23282
(Also to nearest drig. unit line, it any) 510' 18. Distance from proposed location*	40 19. Proposed Depth	20. BLM/BIA Bond,1	No. on file	13/
to nearest well, drilling, completed, 150' applied for, on this lease, ft.	·····	ST.		27
	13,800' 22. Approximate date work will st	NM-2037 (7)	nated duration	
<ol> <li>Elevations (Show whether DF, KDB, RT, GL, etc.)</li> <li>3576' GL</li> </ol>	June 15, 2004	6 wee	-	20
		phan Controlled		<u>~</u> ~
The following, completed in accordance with the requirements of Onshor		· · · · · · · · · · · · · · · · · · ·	534265	V
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System I</li> </ol>	ands the litem 20 above). 5. Operator certification			
SUPO shall be filed with the appropriate Forest Service Office).	6. Such other site s authorized office	pecific information a er.	nd/or plans as may be	e required by the
25. Signature	Name (Printed/Typed)		Date	
Beorger, Smath	George R. Smith	·····	1/16/0	)4
Title				
Agent for Samson Resources Approved by (Signature)/S/ Linda S. C. Rundell	Name (Printed/TypedLind		Date	
			JUI JUI	N 0 4 2004
STATE DIRECTOR	Office	NM STATE O	FFICE	
Application approval does not warrant or certify the type applicant heider operations thereon. Conditions of approval, if any, are attached.	BIECTIPOIILE to those rights in UIREMENTS AND	n the subject lease whice APPROV	h would entitle the appl AL FOR 1	YEAR
Title 18 U.S.C. Section 1001 and Title 43 U.S. States any false, fictitious or fraudulent statement space of the section of th	and the second s	nd willfully to make to	any department or age	ency of the United
*(Instructions on reverse)	wyterester	····		
				KE
Lease Responsibility Statement: Samson Resource concerning operations conducted on the leased lar	es Co. accepts all applicable t ad or portion thereof.	erms, conditions, s	tipulations, and rea	strictions
<b>R-111-P</b> Peter	30 z	KIN	11	
CEMENT BEHH	ND THE 11 24"	George R. St	nith agent	
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DISTRICT I P.O. Box 1980, Hobbs, NM 88241	-1980			State of New Minorals and Natural			For Revised Februar	m C-102
DISTRICT II P.O. Drawer DD, Artonia, NM 88	11-0719	OIL			ON DIVIS	ION	to Appropriate Dist State Lease Fee Lease	rict Office - 4 Copies
DISTRICT III 1000 Rio Brazos Rd., Aztec,	NM 87410		Santa F		o 87504-2088			
DISTRICT IV p.o. box 2068, santa pe, n.m.	875042088	WELL LO	CATION	AND ACREA	GE DEDICATI	ON PLAT	AMENDED	REPORT
API Number 30-025-36	97		Pool Code 040		Teas	Pool Name Penn Gas		
Property Code 34049	<u> </u>	GI	UNSLIN	Property Nam GER "11" F	EDERAL COM		Well Num	lber
OGRID No. 20165				Operator Name ISON RESOL	he		Elevatio 3576	
20105	<u></u>	<u></u>		Surface Loca		- <u></u>		
UL or lot No. Section M 11	Township 20-S	Range 33-E	Lot Idn	Feet from the 810	North/South line SOUTH	Feet from the 660	East/West line WEST	County LEA
		Bottom		T	erent From Sur			
UL or lot No. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres Joint 320	or Infill Co	COM.	Code Or	der No.	<b>A</b>			L
NO ALLOWABLE					INTIL ALL INTER		EN CONSOLIDA	TED
*****							R CERTIFICAT	
	   					contained herein best of my know Signature George R Printed Nam	y certify the the inj is true and comple- ledge and better. . Smith, ag eson Resourc	ent
						Title February Date	19, 2004	
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### **APPLICATION FOR DRILLING**

SAMSON RESOURCES CO. Gunslinger 11 Federal Com., Well No. 1 810' FSL & 660' FWL, Sec. 11-T20S-R33E Lea County, New Mexico Lease No.: NM-13280 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	1,420'	Penn Shale	12,150'
Tansill	3,100'	Strawn	12,300'
Capitan	3,400'	Atoka	12,500'
Delaware	5,200'	Morrow	13,200'
1 <sup>st</sup> Bone Spring	9,400'	T.D.	13,800'
Wolfcamp	11,600'		

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 5200'.

Gas: Possible in Atoka below 12,500' and the Morrow below 13, 200'.

#### 4. Proposed Casing Program:

<u>HOLE SIŽE</u>	CASING SIZE WEIGHT	GRADE	JOINT	SETTING DEPTH	QUANTITY OF CEMENT
18 1/2"	16" 75.0#	K-55	BT&C	0' - 1,450'	Circ 890 sx "C" cement
14 3/4"	11 3/4" 54. <b>6</b> #	K-55	LT&C	0'- 3,100'	Circ. 1330 sx. HLC Prem Plus
10 5/8"	8 5/8" <i>36 03<del>24</del>9</i> #	HC K55	LT&C	0' - 5,200'	Circ. 900 sx. Interfill C & Prem
7 7/8"	5 1/2" 20.0#	P110	LT&C	0' - 13,800'	1050 sx Zoneseal & 250 sx Super H TOC
					5000'

# 5. Minimum Specifications for Pressure Control Equipment:

NU 21 <sup>3</sup>/<sub>4</sub>" 2M WP Hydril & test to 800 psi before drilling 14 <sup>3</sup>/<sub>4</sub>" hole.

NU 13 5/8" 10M WP Shaffer, double over single w/ 13 5/8" Hydril annular preventer before drilling the 10 5/8" & 7 7/8" holes. Perform 3M test before drilling 10 5/8" hole & 5M test before drill 7 7/8" hole. See Exhibit "E".

6.	MUD PROGRAM:		<b>MUD WEIGHT</b>	VIS.	W/L CONTROL
	0' - 1,450':	Fresh water mud:	8.4 - 9.2 ppg	28 - 29	No W/L control
	1,450' - 3,100':	Fresh/native brine	10.0 - 10.4 ppg	26 - 29	No W/L control
	3,100' - 5,200':	Fresh water + addit.	8.8 - 9.6 ppg	26 - 29	No W/L control
	5,200' - 12,300':	Fresh water/Cut brine	e 8.4 - 9.2 ppg	26 - 29	No W/L control
	12,300' - 13,800':	Cut Brine/xcd Polym	er 9.4 - 11.5 ppg	29 - 42	W/L control: <10cc

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

SAMSON RESOURCES CO. Gunslinger 11 Federal Com., Well No. 1 Page 2

 8. Testing, Logging, and Coring Program: Drill Stem Tests: None unless conditions warrant. Logging: 5,000' to T.D: CNL-DNL w/GR-Cal. 5,000' 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 = 6072 psi and surface pressure of 3036 psi with a temperature of 198°.

10.  $H_2S$ : None expected. None expected. The Mud Log Unit will be 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.

11. Anticipated starting date: April 15, 2004. Anticipated completion of drilling operations: Approximately 6 weeks.

#### MULTI POINT SURFACE USE AND OPERATIONS PLAN

SAMSON RESOURCES Gunslinger 11 Federal Com., Well No. 1 810' FSL & 660' FWL, Sec. 11-T20S-R33E Lea County, New Mexico Lease No.: NM-13280 (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 37 road miles northeast of Carlsbad, New Mexico. Traveling east from Carlsbad there will be approximately 37.0 miles of paved highway and .5 mile of gravel oilfield road.
- B. Directions: Travel east from Carlsbad, NM on U.S. Highway 62/180 for approximately 32 miles to NM Highway #176. Continue east on #62/180 for 5.3 miles, .1 mile east of MM #73. Turn south, at a Woodbine Pet. and a Shackleford Oil Co. sign, for .1 mile to an east/west crossroad, which is the access road for an AT&T buried fiber optic cable. Turn to the NE on the AT & T access road for .2 mile to the southwest corner of the proposed well site.

### 2. PLANNED ACCESS ROAD:

- A. Length and Width: There will be approximately 1100 feet of existing access road 12 feet wide (24' max.). The proposed and existing access roads are color coded on Exhibit "A".
- B. Construction: The existing access road will be upgraded by grading and topping with compacted caliche and will be properly drained.
- C. Turnouts: There may be at least one turnout increasing the road width to 20 feet for passing.
- D. Culverts: None required.
- E. Cuts and Fills: None required.
- 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 no production facilities on the lease 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.

### 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 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 Federal pit located in the SENW of Sec. 14-T20S-R33E. 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: 300' X 210', plus 150' X 150' mud pits. The pits will be on the northeast.
- C. Cut & Fill: There will be a cut of 3-5 feet on the south and southwest with fill to the north and northwest.
- 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 completion or abandonment.

### **11. OTHER INFORMATION:**

- A. Topography: The proposed well site and access road is located in the Querecho Plains. The location has an overall northwesterly slope of 1-2% from an elevation of 3576 feet.
- B. Soil: The topsoil on the well site and access road is reddish brown colored fine sand. The soil is of the Tonuco Loamy Fine Sands soils series.
- C. Flora and Fauna: The vegetation at the well site is a sparse to fair grass cover of three-awn, dropseed, grama some bluestem, muhly and other miscellaneous native grasses along with plants of mesquite, yucca, sage, javelina, sparse shinnery oak brush, broomweed, cacti, buckwheat 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 and US Highway 62/180, 600 feet to the north. The AT&T buried fiber optic cable is 225 feet to the south.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed well site and access road are on Federal surface.
- H. There is no evidence of archaeological, historical or cultural sites in the area. Archaeological Survey Consultants, P.O. Box 2285, Roswell, NM 88202 are conducting an archaeological survey and their report will be submitted to the appropriate government agencies.

## SAMSON RESOURCES Gunslinger 11 Federal Com., Well No. 1 Page 4

# 12. OPERATOR'S REPRESENTATIVE:

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

Billy Goodwin Samson Resources Samson Plaza-Two West Second St. Tulsa, OK 74103-3103 Office Phone: (918) 591-1822

### **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.

February 19, 2004

George R. Smith Agent for: Samson Resources



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EXHIBIT "E" SAMSON RESOURCES CO. Gunslinger 11 Federal Com., Well No. 1 BOP Specifications



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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artenia, NM 88210	State of New Mexico Energy Minerals and Natural Resources	Form C-144 March 12, 2004
District.III 1000 Rio Brazos Rosd, Aztoc, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Oil Conservation Division 1220 South St. Francis Dr. Santa Fo, NM 87505	For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Pc office

Is pit or below-grade tan	de Tank Registration or Closur k covered by a "general plan"? Yes [] No r below-grade tank of Closure of a pit or below-grad	
	Telephone: 918/591-1386 e4 4103-3103 5 3679 7 U/L or On/Otr. SW Sec 11 T 2	mail address: TKOSCELBY@SAMSONCO
Pit         Ime:       Drilling Of Production Disposal Workover         Workover       Energency D         Lined IN Unlined D         Liner type:       Synthetic II Thickness 12 mil         Clay Dobtic	Below_grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes [] If not	
Depth to ground water (vertical distance from bottom of pit to acasonal 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	(20 points) (7.0 points)
Distance to surface water: (horizontal distance to all wetlanda, playas, irrigation canals, ditches, and percandal and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but leas than 1000 feet 1000 feet or more	(20 points) (10 points) ( 0 points)
	Ranking Score (Total Points)	10

If this is a pit closure; (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) indicate disposal location:

unsite 🔲 offinite 🔲 If offinite, 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 yas, 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 [], a general permit [], or an (attached) alterometry OCD-approved plan []. Date: <u>B/2/04</u> Printed Name/Title <b>TOH KOSCELNY</b> , <b>ENVIRONMENTAL</b> Signature. Your certification and NMOCD approval of this application/closing 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: Dave: 8/2/03 PETROLEUM ENGINEER Signature Could Strength
Printed Numer Title FETROLEUM ENGINEER_Signature





A005/005

08/02/2004 MON 13:59

FAX 918 591 1703 Tight Sands