	New Maxico (1)	Conservation Divisi	on, Dis	uict I				
₩ ¹ 1 T	· · · · · · · · · · · · · · · · · · ·	625 N. French Drive Hobbs, NM 88240	,	⇒[POTA	SH		
	1 A	e-Submitter			······			
	Form 3160-3 (April 2004) UNITED STATE	S	C.A.P.	≦ S∕_OMB N	APPROVED Jo. 1004-0137 March 31, 2007			
	DEPARTMENT OF THE BUREAU OF LAND MA		с.	5. Lease Serial No. NM-13279				
	APPLICATION FOR PERMIT TO		6. If Indian, Allotee	e or Tribe Name				
	Ia. Type of work: I DRILL REENT	TER		7 If Unit or CA Agr	reement, Name and No.			
	lb. Type of Well: 🚺 Oil Well 🗹 Gas Well 🗍 Other	Single Zone Multip	ple Zone	8. Lease Name and Well No. Bandit 15 Federal Com #2 3353				
	2. Name of Operator 20/65 Samson Resources Company Att	n: Brad P. Hargrov		9. API Well No. 30-025-355592 37231				
	3a. Address Two West Second Street	3b. Phone No. (include area code)		10. Field and Pool, or				
	Tulsa, OK 74103-3103 4. Location of Well (Report location clearly and in accordance with clearly according to the clearly and in accordance with clearly according to the clearly and in accordance with clearly according to the clearly	(918) 591-1939		Teas Penn Ga	00010)		
	At surface 1980' FSL & 1980' FEL	ny sale requirements.			Blk. and Survey or Area			
	At proposed prod. zone Same	R-111-P Potas	31	Section 15-T2		_		
	14. Distance in miles and direction from nearest town or post office* 37 miles northeast of Carlsbad, NM	· · · · · · · · · · · · · · · · · · ·		12. County or Parish Lea	13. State NM			
	15. Distance from proposed* 950' location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease40	17. Spacing 320	g Unit dedicated to this	weij 37			
	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2818.2'	19. Proposed Depth 14,000'	20. BLM/B NM-20	WBIA-Bond Na on file				
	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3580' GL	22. Approximate date work will star 04/11/2005	rt* \	23. Estimated duratio	ôn co/	_		
	24 Attachmente							
	 The following, completed in accordance with the requirements of Onsh Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	4. Bond to cover th Item 20 above). 1 Lands, the 5. Operator certific	ttached to this he operation cation specific info	s form: $2 < 9$; gr as unless covered by an	s may be required by the			
	25. Signature	Name (Printed/Typed)			Date			
	Title	Brad P. Hargrove			03/11/2005			
	Approved by (Signature)	No. The IT I			T	_		
	Title	Name (Printed Typed)	50 <u>H</u> X	ISON	Date MAY 0	5 2005		
Ac	NM STATE DIRECTOR NM STATE OFFICE							
I ^A	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 1 YEAR							
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 Unite States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.								
	*(Instructions on page 2) Lease Responsibility Stateme	nt: Samson Resour	rces Co	ompany acce	epts all	=		
	applicable terms, conditions operations conducted on the	, stipulations, and leased land or por	nd rest	trictions c	oncerning			
• • • • • • • • •			Bu	May	MAY 1	2 2005		
WITNES	9 <i>6</i> 9		id P. I lior La	Hargrove andman	—			
AA 6 4 8 <i>44 4</i> 23	CEMENT BEHIND THE CASING MUST BE <u>CLRC</u>	<u>) ³/4</u> 61 2 <u>ULATED</u> SI	pprov Enera Peciai	al Subjec U Requiri L Stipulat	ement s an	D		
		A :	ITACH	4CU				

State of New Mexico DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980 Snergy, Minerals and Natural Resources Department DISTRICT II OIL CONSERVATION DIVISION P.O. Drawer DD, Artesia, NM 88211-0719 P.O. Box 2088 DISTRICT III Santa Fe, New Mexico 87504-2088 1000 Rio Brazos Rd., Aztec. NM 87410 DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT P.O. BOX 2085, SANTA PE, N.M. 87504-2088 API Number Pool Code Pool Name 86040 TEAS 'PENN/GAS 30.025.3723/ Property Code **Property** Name BANDIT "15" FEDERAL *7353*2 OGRID No.

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT



APPLICATION FOR DRILLING

SAMSON RESOURCES CO. Bandit 15 Federal, Well No. 2 1980' FSL & 1980' FEL, Sec. 15-T20S-R33E Lea County, New Mexico Lease No.: NM-13279 (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	1,340'	Penn Shale	12,150'
Yates	3,066'	Strawn	12,300'
Capitan	3,368'	Atoka	12,500'
Delaware	5,200'	Morrow	13,200'
1 st Bone Spring	9,400'	T.D.	14,000'
Wolfcamp	11,600'		- 1,000

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:

1

	<u>CASING SIZE</u>	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"	54.5#	K-55	BT&C	0' - 3,100'	Circ. 1330 sx. HLC Prem Plus
10 5/8"	8 5/8"	32.0#	HC-K-55	LT&C		Circ. 900 sx. Interfill C & Prem
7 7/8"	5 1/2"	20.0#		LT&C	0' - 14,400'	1050 sx Zoneseal & 250 sx super H
						TOC 5000'

5. Minimum Specifications for Pressure Control Equipment:

NU 21 ¼" 2M WP Hydril & test to 800 psi before drilling 14 ¼" 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".

<u>6.</u>	MUD PROGRAM:		MUD WEIGHT	VIS.	W/L CONTROL
1	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
		Fresh water + addit.		26 - 29	No W/L control
	5,200' - 12,300':	Fresh water/Cut brind	e 8.4 - 9.2 ppg	26 - 29	No W/L control
	12,300' - 14,000':	Cut Brine/xcd Polym	er 9.4 - 11.5 ppg	38 - 42	W/L control: <10cc

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

SAMSON RESOURCES CO. Bandit 15 Federal, Well No. 2 Page 2

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> 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 = 6160 psi and surface pressure of 3080 psi with a temperature of 200°.

10. H_2S : 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 11, 2005 Anticipated completion of drilling operations: Approximately 6 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

SAMSON RESOURCES Bandit 15 Federal, Well No. 2 1980' FSL & 1980' FEL, Sec. 15-T20S-R33E Lea County, New Mexico Lease No.: NM-13279 (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 .3 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 .3 mile to an east/west crossroad. This is the NE corner of the Bandit 15 Federal #1 proposed well site. The proposed access road will start on the southwest corner of the pad and will run southwest for 2200' to the southeast corner of the proposed well site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: There will be approximately 2200 feet of new access road 12 feet wide (24' max.). The proposed and existing access roads are color coded 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 at least one possibly two turnouts increasing the road width to 20 feet for passing.
- D. Culverts: None required.
- E. Cuts and Fills: There will be some 3 4 foot cuts to level the sand dunes and deflation basins.
- 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.

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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 north.
- C. Cut & Fill: There will be mostly leveling of the 2.5-3 foot of the existing sand dunes and basins. The site is relatively level.
- 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% from an elevation of 3580 feet.
- B. Soil: The topsoil on the well site and access road is reddish brown colored fine sand. The soil is of the Pyote Soils and Dune Land 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.
- 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.

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) 591-1591

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.

March 11, 2005

Brad P. Hargrove Senior Landman



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EXHIBIT "E" SAMSON RESOURCES CO. Bandit 15 Federal, Well No. 2 BOP Specifications . . .

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

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

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes D No X Type of action: Registration of a pit or below-grade tank X Closure of a pit or below-grade tank

Operator:Samson Resources CompanyTelephone:	(918) 583-1791e-mail address:					
Address:Two West Second Street, Tulsa, OK 74103						
Facility or well name:Bandit 15 Federal Com #2API #:30	-025-1000 3723 U/L or Qtr/Qtr NW/4.SI					
County: <u>Lea</u> Latitude <u>32 34' 16,34" N</u> Longitude <u>103 38' 54,37" W</u> NAD: 1927 🛛 1983 🗌						
Surface Owner: Federal 🖾 State 🗖 Private 🗖 Indian 🗍						
Pit	Below-grade tank					
Type: Drilling 🖾 Production 🗋 Disposal 🗋	Volume:bbl Type of fluid:					
Workover 🗖 Emergency 🗖	Construction material:					
Lined 🖾 Unlincd 🗖	Double-walled, with leak detection? Yes [] If not,	explain why not.				
Liner type: Synthetic 🖾 Thickness <u>12</u> mil Clay 🗖						
Pit Volume 10.000 _bb1						
	Less than 50 feet	(20 points)				
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points)				
high water elevation of ground water.)	100 feet or more	(0 points)				
	Yes	(20 points)				
Wellhead protection area: (Less than 200 feet from a private domestic	No	(0 points)				
water source, or less than 1000 feet from all other water sources.)						
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)				
irrigation canals, ditches, and perennial and cphemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)				
migaton entras, energy and potential and epitenteta entrestinger)	1000 feet or more	(0 points)				
	Ranking Score (Total Points)	0				

If this is a nit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if (3) Attach a general description of remedial action taken including your are burying in place) onsite 🔲 offsite 🛄 If offsite, name of facility_

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

Additional Comments:

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) alternative OCD-approved plan 🗔

Date: 5/12/05	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Printed Name/Title: Tom Koscelny, Environmental Supervisor	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.

PAUL F. KAUTZ Approval: 12 2005 PETROLEUM ENGINEER Signature Printed Name/Title

o5/12/2005 THU 10:09 FAX 918 591 1703 Tight Sands