New Mer	dico Oil Conservation Di 1625 N. French Det	violan 15t i	â :				
Form 3160-3 (August 1999)	Hobbs, NM 88249						
UNITED ST DEPARTMENT OF T BUREAU OF LAND M	HE INTERIOR F. DU	-33	Exp <u>res Novemb</u> 5. Lease Serial No. NM-14791				
APPLICATION FOR PERMIT T			6. If Indian, Allottee or	Tribe Name			
la. Type of Work: 🖌 DRILL 🔲 RE	ENTER		7. If Unit or CA Agreem	ent, Name and No.			
1b. Type of Well: Oil Well 🗹 Gas Well 🗖 Other	🔲 Single Zone 🔲	Multiple Zone	8. Lease Name and Well 1 New Mexico B Federa				
2. Name of Operator Samson Resources 20165			9. API Well No. 30.025.368				
3a. Address Samson Plaza–Two W. 2nd St. Tulsa, OK 74103	3b. Phone No. <i>(include area c</i> (918) 591-1822	ode)	10. Field and Pool, or Exp Hat Mesa, Morrow G	· ,			
4. Location of Well (Report location clearly and in accordance At surface 3300' FNL & 1980' FEL	e with any State requirements. *)		11. Sec., T., R., M., or Bl	c. and Survey or Area			
At proposed prod. zone same $Lot/10$ 14. Distance in miles and direction from nearest town or post off	R-111-P Petash		Sec. 3-T21S-R32E 12. County or Parish	12 84-4-			
39 miles northeast of Carlsbad, NM				13. State			
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 2282.84		Lea ng Unit dedicated to this well (160) 3^{1920}	NM			
 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2320' 	19. Proposed Depth 14,200'		BIA Bond No. on file	· · · · · · · · · · · · · · · · · · ·			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3708' GL	22. Approximate date work March 22, 2004		23. Estimated duration 6 weeks				
	24. Attachments	Cadshad	Controlled Water B	NA STREET			
 The following, completed in accordance with the requirements of Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest S SUPO shall be filed with the appropriate Forest Service Office 	4. Bond to co Item 20 al 5. Operator c	I be attached to thi over the operation pove). ertification. site specific info	1	sting bond on file (see			
25. Signature Beorge Amith	Name (Printed/Typed) George R. Smith		Da 2	te /13/04			
Title							
Agent for Samson Resources							
Approved by (Signature) /s/ Linda S. C. Runde	11 Name (Printed/Typed)	s/ Linda S	. C. Rundell	*3 MAY 2004			
STATE DIRECTOR	Office		E OFFICE				
Application approval does not warrant or certify that the applicant operations thereon. Conditions of approval, if any, are attached.	holds legal or equitable title to those r	ights in the subject APF	ROVAL FOR	e applicant to conduct 1 YEAR			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representation	make it a crime for any person knowing as to any matter within its jurisdict	ngly and willfully on.	to make to any department of	or agency of the United			

*(Instructions on reverse)

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Lease Responsibility Statement: Samson Resources accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof.

George R. Smith, agent

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APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

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P.O. B	lox 16	160. H	obba. N	04 A4	241-

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Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artosia, NM 88211-0719

DISTRICT III

IJ

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. BOX 2068, SANTA FE, N.M. 87504-2088

API Number **Pool Code** Pool Name 30-025.36834 78240 Hat Mesa Morrow **Property Code** Property Name Well Number 34243 NEW MEXICO B 2 OGRID No. **Operator** Name Elevation 20165 SAMSON RESOURCES 3708

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
.1110	3	21–S	32-E		3300	NORTH	1980	EAST	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 320 (160)		r Infill Co	nsolidation	Code Ord	der No.			<u> </u>	

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

4 3 2 1		OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3704.0' 500, $3705.0'3706.0'3710.8'$ $3711.2'$	<u>Medraph</u> <u>Signature</u> George R. Smith, agent Printed Name for Samson Resources Title February 13, 2004 Date
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	GEODETIC COORDINATES NAD 27 NME Y = 551052.7 N X = 707559.3 E LAT. 32'30'47.35"N LONG. 103'39'36.02"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. FEBRUARY 4, 2004 Date Surveysed L.A. Signature & Seaf-60 Protessional Surveyor bar b liefon 2/12/04 04.11.0129 Certificate-No. GARY EIDSON 12841

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

D	AMENDED	REPORT

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State of New Mexico

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APPLICATION FOR DRILLING

SAMSON RESOURCES New Mexico B Federal, Well No. 2 3300' FNL & 1980' FEL, Sec. 3-T21S-R32E Lea County, New Mexico Lease No.: NM-14791 (Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Samson Resources 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	1,385'	Penn Shale	12,100'
Yates	3,260'	Strawn	12,400'
Capitan	3,610'	Atoka	12,800'
Delaware	4,850'	Morrow	13,300'
1 st Bone Spring	8,400'	T.D.	14,200'
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 4850'.

Gas: Possible in Atoka below 12,800' and the Morrow below 13, 300'.

4. Proposed Casing Program:

HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT	SETTING DEPTH	
18 1/2"	16"	75.0#	K-55	BT&C		, Circ 800 sx "C" cement
14 3/4"	11 3/4"	54.5#	K-55	BT&C	0' - 3,550'3520	Circ. 1860 sx. HLC Prem Plus Circ. 960 sx. Interfill C & Prem
10 5/8"	8 5/8"	32.0#	N-80	LT&C	0' - 4,850'	Circ. 960 sx. Interfill C & Prem
7 7/8"	5 1/2"	20.0#	P110	LT&C	0' - 14,200'	840 sx Interfill H & Super H TOC 6,800'

5. Minimum Specifications for Pressure Control Equipment:

A 13 5/8" 10,000 psi WP Shaffer, LWS Double Gate BOP will be installed on the 11 3/4" casing and tested as per Onshore Oil & Gas Order #2 as a 5,000 psi system. An annular preventer will be installed on the 16" casing to drill to the 3550" depth. The casing and BOP will be tested before drilling out with the 10 5/8" and 7 7/8". See Exhibit "E".

6.	MUD PROGRAM:		MUD WEIGHT	VIS.	W/L CONTROL
	0' - 1,450':	Fresh water mud:	8.6 - 9.0 ppg	32 - 36	No W/L control
	1,450' - 3,000':	Fresh/native brine	10.0 - 10.1 ppg	28 - 29	No W/L control
	3,000' - 4,850':	Fresh water + addit.	8.4 - 8.5 ppg	28 - 29	No W/L control
	4,850' - 11,500':	Fresh water/Cut brine	8.4 - 9.2 ppg	28 - 29	No W/L control
	11,500'- 12,900':	Cut Brine	8.8 - 9.6 ppg	28 – 29	No W/L control
	12,900' - 14,200':	Cut Brine/xcd Polyme	er 9.4 - 11.5 ppg	38 - 42	W/L control: 15cc to 8cc

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

SAMSON RESOURCES New Mexico B Federal, Well No. 2 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 = 6336 psi and surface pressure of 3168 psi with a temperature of 204° .

10. H₂S: None expected. The Minis "2" Fed. #1 producing in the Delaware was tested and is totally sweet, no H₂S.

11. Anticipated starting date: March 22, 2004. Anticipated completion of drilling operations: Approximately 6 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

SAMSON RESOURCES New Mexico B Federal, Well No. 2 3300' FNL & 1980' FEL, Sec. 3-R21S-R32E Lea County, New Mexico Lease No.: NM-14791 (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 40 road miles northeast of Carlsbad, New Mexico. Traveling east from Carlsbad there will be approximately 37.0 miles of paved highway and 1.75 miles of gravel oilfield roads.
- B. Directions: Travel east from Carlsbad, NM on U.S. Highway 62/180 for approximately 32 miles to NM Highway #176. Turn southeast on NM #176 for 4.6 miles. Turn south for 1.3 miles on Salt Lake Rd. and then west on Hat Mesa Rd. for .5 mile to a staked road on the right (north). This is the start of the proposed access road that will run north for approximately 1750' to the SW corner of the proposed well site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: None. The proposed access road is approximately 1750 feet in length and 12 foot in width and is color-coded 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: One will be required, increasing the 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".

SAMSON RESOURCES New Mexico B Federal, Well No. 2 Page 2

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. Samson Resources has 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. A 3" steel 3200 psi gas flow line, with maximum of 1000 psi operating pressures, will be run parallel to the access roads west to the Duke Energy compressor station in Sec. 4-T21S-R32E or their nearest line hookup on the south side of Hat Mesa Rd. 750

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 Federal pit located in the NENW of Sec. 4-T21S-R32E. 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.

SAMSON RESOURCES New Mexico B Federal, Well No. 2 Page 3

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 southeast.
- C. Cut & Fill: There will be a 1 foot cut on the southeast with fill to the 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 abandonment.

11. OTHER INFORMATION:

- A. Topography: The proposed well site and access road is located northwest of Hat Mesa. The location has a northwesterly slope of 1% from an elevation of 3708'.
- B. Soil: The topsoil on the well site and access road is reddish brown colored fine sand. The soil is of the Pyote and Maljamar 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, burrograss, muhly and other miscellaneous native grasses along with plants of mesquite, yucca, sage, 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.

SAMSON RESOURCES

New Mexico B Federal, Well No. 2 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 13, 2004

George R. Smith Agent for: Samson Resources

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EXHIBIT "E" SAMSON RESOURCES CO. New Mexico B Federal, Well No. 2 BOP Specifications



EXHIBIT "E" SAMSON RESOURCES CO. New Mexico B Federal, Well No. 2 BOP Specifications District_1 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 Fc, NM 87505

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

Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes No KX Type of action: Registration of a pit or below-grade tank I Closure of a pit or below-grade tank

Operator: SAMSON RESOURCES CO Address: TWO WEST SECOND ST., TULSA, OK 7 Facility or well name: NEW MEXICO "B" FEDERA, #2 County: LEA Latitude 32 30 47.355ngitude 103	4103–3103	nail address: IKOSCELNY@SAMSON . COM 21.8 32E ner Federal State Private Indian
Pit Type: Drilling Production Disposal Workover Emergency Lined [] Unlined Linet fp: Synthetic Thickness 32_000 01	Below-grade tank Vohume: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 seasonal high water clevation of ground water.)	Loss 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) (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and percential 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)

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:

onsite [] offsite [] 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.

Ranking Score (Total Points)

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 Δa general permit \Box , or an (attached) alternative OCD-approved plan \Box .

Printed Name/Title TOM KOSCELNY, ENVIRONMENTAL

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

Signa

Approval: 29/04 Date: Z

Printed Name/Title

Faul 7 tong Signature

10

08/27/2004 FRI 13:39 FAX 918 591 1703 Tight Sands

SECTION 3, TOWNSHIP 21 SOUTH, RANGE 32 EAST, N.M.P.M., NEW MEXICO. 3704.0 500' 3705.0 O. NORTH OFFSET 3706.9 Ð 150'/WEST 50' EAST OFFSET NEW MEXICO B #2 OFFSET 500' 3708.4 ELEV. - 3708 3707.9 O Ó Ð LAT. - 32"30'47.35"N Pit LONG. - 103'39'36.02'W 180' SOUTH ROAD 1748.0 OFFSET 3710.0 O PROPOSED I 3 * 200. 3710.8 5711.2 EXIST ROAD (HAT MESA LN.) 100 ٥ 100 200 BOHLETROPOL SCALE: 1"=100" SAMSON RESOURCES DIRECTIONS TO LOCATION: TRAVELING SOUTHEAST ON STATE HWY #175 TURN RIGHT @ MILE MARKER #49. GO SOUTH ON SALT LAKE ROAD 1.2 MILES. TURN RIGHT ON HAT MESA LN. AND GO WEST 0.6 MILES, PROPOSED ACCESS ROAD STARTS AT THIS POINT AND GOES NORTH 1750' TO SW CORNER PROPOSED LOCATION. THE NEW MEXICO B #2 LOCATED 3300 FROM THE NORTH LINE AND 1980 FROM THE EAST LINE SECTION 3, TOWNSHIP 21 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO. Survey Date: 2/04/04 Sheet of 1 Sheets JOHN WEST SURVEYING COMPANY 412 N. DAL PASO - HOBBS, NEW MEXICO - 505-393-3117 W.O. Number: 04.11.0129 Drown By: L.A. DISK:CD/3 Date: 2/06/04 04110129

A1003/004

08/27/2004 FRI 13:39 FAX 918 591 1703 Tight Sands

XMap® 4.5 DELORME Drill Hole Distance to Surface Water Sources > 1000 feet (29 (29) -05 ゐ hill Hol 1.39 <u>(</u>_______32 < 36 **34** 35 33 Defii Hicto 0 6 Deil Ha ELDE Grave Fit .Ne Fe . 3 1 <u>٥</u>٩٩ Drill Hale NERA New Mexico D Federat #2 Federal TSS Com#2 . . 9**6a**a ¥ <u>ي</u>ون Ω 10 12 HAT MES 123 x Dig Drett Hanks 0 A S lerda Fed Ha :13% n #' 37,600 Data use subject to license. © 2004 DeLorma. XMap@ 4.5. iii 8 MN (8.4*E) www.delorme.com 1" = 3,125.0 ft Data Zoom 12-0

2004/004