Form 3160-3 (August 1999) Resubmit APD

Previous submittal: 10/24/03

UNITED STATES

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5. Lease Serial No. NM-14791

APPLICATION FOR PERMIT TO DR	ILL OR R		1-801A	ြစ်စွိIf Indian, A	liottee or Tribe	Name
la. Type of Work: DRILL REENTER				7. If Unit or CA	A Agreement, N	ame and No.
1b. Type of Well: Oil Well Gas Well Other	☐ Si	ngle Zone 🔲 Multi	ple Zone	8 Lease Name Federal TSS		(9927)
2. Name of Operator		. / 5	٧	9. API Well No		10
Samson Resources		<2016	>5/	30-02		<u>68</u>
3a. Address		. (include area code)		10. Field and Po	•	ory _
Samson Plaza-Two W. 2nd St. Tulsa, OK 74103	(918) 59			Hat Mesa Mo		
4. Location of Well (Report location clearly and in accordance with a	ny State requi	rements. *)		11. Sec., T., R.,	M., or Blk. and	Survey or Area
At surface 1650' FSL & 990' FWL	U	rist L				
At proposed prod. zone same	ර්කාව ර්යේ	and water Boo		Sec. 3-T21S-	R32E	
14. Distance in miles and direction from nearest town or post office*				12. County or P	arish	13. State
39 miles northeast of Carlsbad, NM				Lea		NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 990	16. No. of A	Acres in lease		Unit dedicated to	o this well	
18. Distance from proposed location*				320 (160) 20. BLM/BIA/Booth No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft.	1		/ * * * * * * * * * * * * * * * * * * *	· · · · · · · · · · · · · · · · · · ·		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work will s	1 22	23. Estimated	iugupn	
3731' GL	June 1	9, 2006	<u> </u>	6 weeks	8	
	24. Atta	chments	A S	000000 TO	23	
The following, completed in accordance with the requirements of Onshor	re Oil and Gas	Order No.1, shall be at	tached to this	form: OF	8/ N	
1. Well plat certified by a registered surveyor.		4. Bond to cover th	ne operations	unless covered	by an existing	bond on file (see
2. A Drilling Plan.		Item 20 above).	× 100	8821-W		
 A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	Lands, the	5. Operator certific 6. Such other site authorized offic	specific info		plans as may b	e required by the
25. Signature	Name	(Printed/Typed)			Date	
Devenie Ameth	Ge	orge R. Smith			03/3	30/06
Title						, ,
Agent for Samson Resources						
Approved by (Signature) 151 DAVID 13. SINCLAIK	Name 2	e (Printed/Typed) S/ DAV/12	F1 -	SINCLAI	Date MA	Y 0 9 2006
Title ACTIVITY DIRECTOR	Offic	NM	STATE			
Application approval does not warrant or certify that the applicant holds	legal or equita	ble title to those rights	in the subject	lease which woul	d entitle the app	olicant to conduct
operations thereon. Conditions of approval, if any, are attached.			APPR	OVAL FO	OR 1 Y	EAR
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make in States any false, fictitious or fraudulent statements or representations as t			ınd willfully t	o make to any de	epartment or ag	ency of the United

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

APPROVAL SUBJECT TO GEMERAL REQUIREMENTS AMO SPECIAL STIPULATIONS ATTACKED

*(Instructions on reverse)

George R. Smith, agent

Witness Surface & Intermediate Casing

State of New Mexico

DISTRICT | P.O. Box 1880, Hobbs, NM 88841-1980

Energy, Minerals and Natural Resources Department

Form Ç-102 Revised February 10, 1994

DISTRICT II P.O. Brower DD, Artesia, NM 68211-0719

OIL CONSERVATION DIVISION

Submit to Appropriate District Office
State Lease - 4 Conies

DISTRICT III 1900 Rio Brazos Rd., Astec, NM 87410 P.O. Box 2088
Santa Fe, New Mexico 87504-2088

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
30-025-378	68 28800 7824 Hat Mesa Norro	W
Property Code 927	FEDERAL TSS COM.	Well Number 2
OGRID No. 20165	Operator Name SAMSON RESOURCES	Elevation 3731'

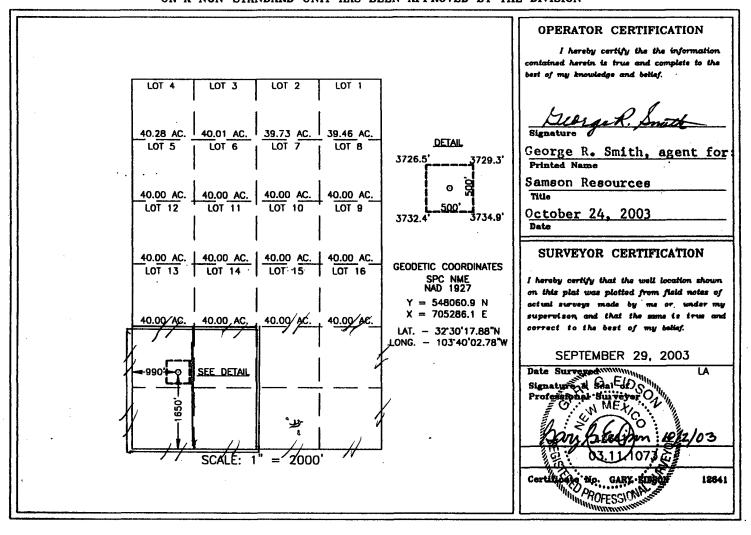
Surface Location

1	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	T	3	21-S	32-E		1650	SOUTH	990	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	Joint of	r Infill C	onsolidation (Code Or	der No.	•			
320 (±60	 			ļ					

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



APPLICATION FOR DRILLING

SAMSON RESOURCES

Federal TSS Com., Well No. 2 1650' FSL & 990' FWL, 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	12,480'
Capitan	3,610'	Atoka	12,880'
Delaware	4,850'	Morrow	13,290'
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 12,880' and the Morrow below 13,290'.

4. Proposed Casing Program:

		· · · · · · · · · · · · · · · · · ·					
HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT	SETTING DEPTH	QUANTITY OF CEMENT	4/27/04
18 1/2"	16"	75.0#	K-55	BT&C	0' - 1,450'1480'	Circ 800 sx "C" cement	20
14 3/4"	11 3/4"	54.5#	K-55	BT&C	0' - 3,550'	Circ. 1860 sx. HLC Prem	Plus
10 5/8"	8 5/8"	32.0#	N-80	LT&C	0' - 4,850'	Circ.960 sx. Interfill C & I	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 3000" 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

Federal TSS Com., 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 = 6248 psi and surface pressure of 3124 psi with a temperature of 204°.

10. H_2S : None expected. The Minis "2" Fed. #1, in Sec. 2 and producing in the Delaware, was tested and is totally sweet, no H_2S . There is no indication of H_2S in the New Mexico A Fed. Wells 2-6 Delaware. 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: June 19, 2006.

Anticipated completion of drilling operations: Approximately 6 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

SAMSON RESOURCES

TSS Federal Com., Well No. 2
1650' FSNL & 990' FWL, 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 2.2 miles of gravel county 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 .9 mile to a road stake on the left. The proposed access road is staked south for 1000 ft. to the NE corner of the proposed well site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The proposed access road will be approximately 1000 feet in length and 12 feet wide (24' Max.). The proposed and existing roads are color coded on Exhibit "A".
- B. Construction: The proposed access road will be constructed by grading and topping with compacted caliche. The surface will be properly drained.
- C. Turnouts: None required.
- 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 Federal TSS Com., 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 buried and will run parallel to the proposed access road and west on Hat Mesa Road to the Duke compressor station and then north to the New Mexico C Federal, Well No. 2 well site gas connection previously approved on a Sundry Notice.

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 Federal TSS Com.,, 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: 400' X 250', plus 140' X 170' mud pits. The pits will be on the north.
- C. Cut & Fill: There will be a 1.5-2 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 1.6 % from an elevation of 3731'.
- 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 has conducted an archaeological survey and their report was submitted to the appropriate government agencies.

SAMSON RESOURCES Federal 11-20-34, Well No. 9 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:

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

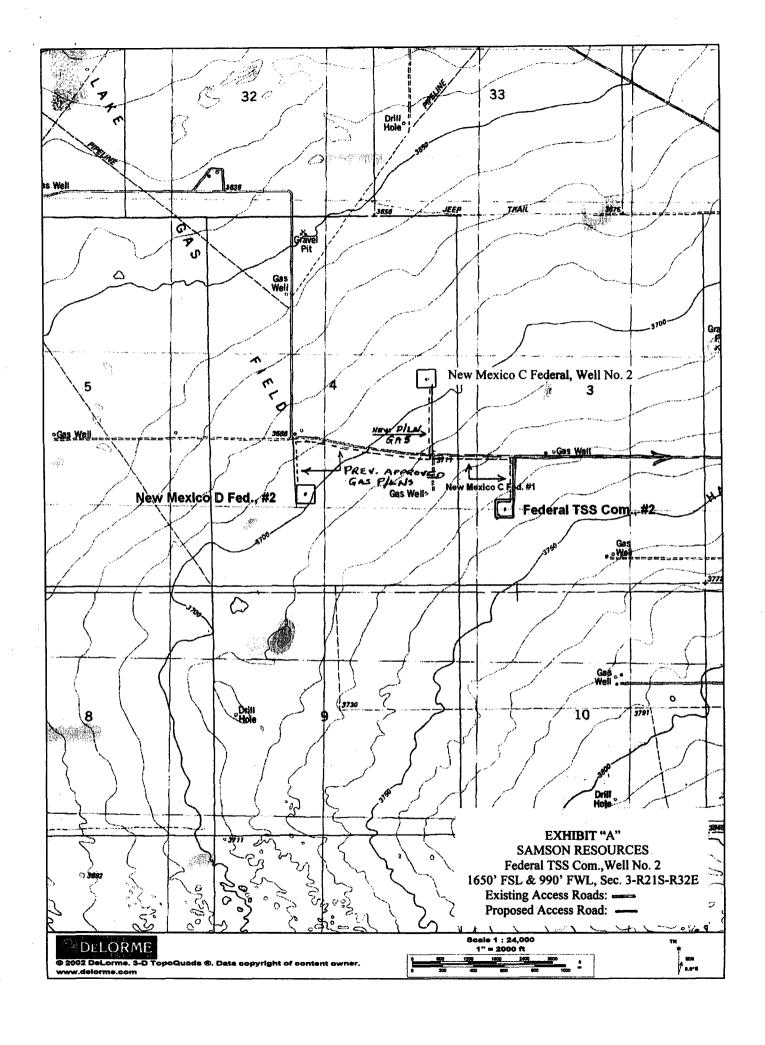
13. CERTIFICATION:

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.

March 29, 2006

George R. Snoth

Agent for: Samson Resources



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Propondend Pogo Prod	Chi Ener Liste 7 30 Chi Ener Liste 7 140 Chi Ener List 140 U.S. "Billing Fed"	Sherri Holeschurk U.S. Sherri Holeschurk (12 7 Mal) Sherri Holes	Control of the second of the s
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Rig # 480

20,000'

DRAWWORKS

Gardner& Denver 1100 E (1500HP) 1 3/8" drill line (2) GE 752 elec. motors

ENGINES

3 - Caterpillars 3508, 9001 IP w/720kW generators

DERRICK

Ideal 143", 1,000,000# hook load w/12 lines

SUBSTRUCTURE

24' height 21' vertical clear height under rotary beams

MUD PUMPS

(2) - Gardner-Denver PZ-10, 1350HP powered by (2) GE 752, 1000HP D.C. Motor

DRILL STRING

5900' 1950 E 5"

3400' 1950 5" X95

1550' 2560 5" X95

1900' 1950 8 5"

BLOWOUT PREVENTERS

(1) Shaffer 13 5/8" 10,000 psi SL double ram w/l12S trim w/ (4) 4" outlets; (1) Shaffer 13 5/8" 10,000 psi single ram w/l12S trim w/(2) 4" outlets (1) 13 5/8" 5000 psi Shaffer annular

MUD SYSTEM

3 pils, 1600 bbl capacity w/high and low pressure mixing capability, Harrisburg 10 cone desilter, I lamisburg 2 cone desander, 2 FSI linear motion shale shakers.

COMMUNICATIONS

24 hour direct cellular telephone

OTHER EQUIPMENT

Blocks, Gardner-Denver 550 ton 6 sheaves 1 3/6" fine

Hook. Joy 500 ton hook

Swivel. Garner-Denver SW400, 400 tons Rolary Table. Gardner-Denver 27 %, 250 tons

@ 100 rpm 500 tons static

Electrical Power.

Fresh Water Storage, Housing, (2) 500 bbl

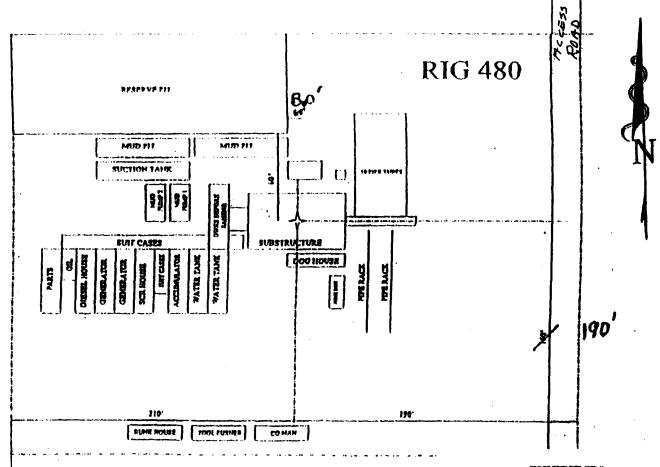
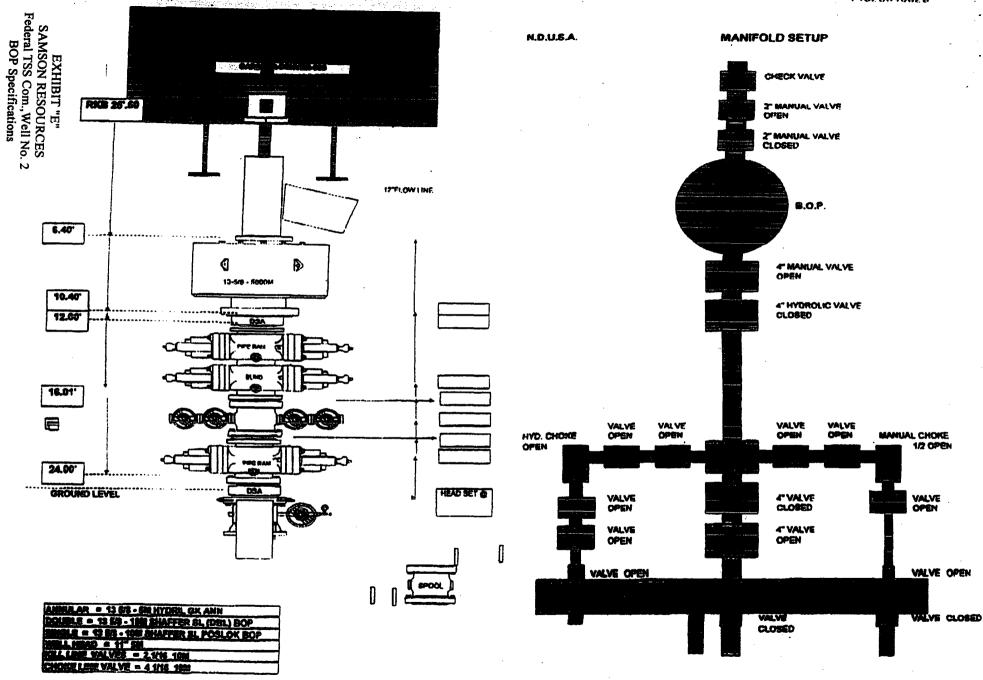


EXHIBIT "D"

SAMSON RESOURCES
Federal TSS Com., Well No. 2
Pad & Pit Layout



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

Form C-144 March 12, 2004

Is pit or below-grade tan	de Tank Registration or Closu k covered by a "general plan"? Yes \(\subseteq \) N r below-grade tank X Closure of a pit or below-gra	οX
Operator: Samson Resources (Brad Hargrove) Address: Samson Plaza Two W. Second St. Tulsa, OK 74103	1elephone: (918) 391-1939 e	175 2701 Q
Facility or well name: Federal TSS Com., Well #2	U/L or Qtr/Qtr NW4SW4Sec 3_T_215	S_R32E_
County: Eddy Lea Latitude 32'30'1788" NLo	ongitude 103'40'02.78"_WNAD: 1927 X 198	83 Surface Owner Federal X State Private
Indian 🗌		
<u>Pit</u>	Below-grade tank	
Type: Drilling X Production Disposal D	Volume:bbl Type of fluid:	
Workover ☐ Emergency ☐	Construction material:	_
Lined X Unlined	Double-walled, with leak detection? Yes If n	not, explain why not.
Liner type: Synthetic X Thickness 12 mil Clay ☐ Volume 10,000_bbl+		
Double a second under (under all distance from bottom of the consequence)	Less than 50 feet	(20 points)
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points)
water elevation of ground water.)	100 feet or more	(0 points)
Wallhard materian area (Leasther 200 feet feet a minuted described	Yes	(20 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	No	(0 points)
Distance to surface contact (horizontal distance to all customs de alecce	Less than 200 feet	(20 points)
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	(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) Indi	icate disposal location:
onsite offsite from If offsite, name of facility	(3) Attach a general description of remedial a	ction taken including remediation start date and
end date. (4) Groundwater encountered: No 🗌 Yes 🗍 If yes, show depth	below ground surfaceft. 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 been/will be constructed or closed according to NMOCD guidelines X, a Date: March 31, 2006	general permit [], or an (attached) alternative C	OCD-approved plan .
Printed Name/Title George R. Smith, agent	Signature &	ed get Smith
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations.	relieve the operator of liability should the contents	of the pit or tank contaminate ground water or
Approval: MAY 1 8 2006		
Date:		
Printed Name/Title PAUL F, KAUTZ	Signature	
PETROLEUM ENGINEER		

Sent: Thu 5/18/2006 12:31 PM

The sender of this message has requested a read receipt. Click here to send a receipt.

Mull, Donna, EMNRD

From:

Phillips, Dorothy, EMNRD

To:

Mull, Donna, EMNRD

Cc:

Subject:

RE: Financial Assurance Requirement

Attachments:

None of these appear on Jane's list and all have blankets.

From: Mull, Donna, EMNRD

Sent: Thursday, May 18, 2006 9:00 AM

To: Phillips, Dorothy, EMNRD

Cc: Macquesten, Gail, EMNRD; Sanchez, Daniel J., EMNRD

Subject: Financial Assurance Requirement

Dorothy,

Is the Financial Assurance Requirement for these Operators OK?

Citation Oil & Gas Corp (4537)
COG Operating LLC (229137)
David H Arrington Oil & Gas Inc (5898)
Arch Petroleum Inc (962)
Chesapeake Operating Inc (147179)
Samson Resources Co (20165)
Range Operating New Mexico Inc (227588)
Marathon Oil Co (14021)
Chevron USA inc (4323)
Yates Petroleum Corp (25575)

Inactive well list has been checked on all these Operators.

Please let me know. Thanks and have a nice day. Donna