

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1. Operator Name and Address SAMSON RESOURCES CO 2 W 2ND ST TULSA , OK 74103		2. OGRID Number 20165
		3. API Number 30-015-34644
4. Property Code 35467	5. Property Name LIVINGSTON RIDGE 36 STATE	6. Well No. 001

**7. Surface Location**

UL - Lot O	Section 36	Township 22S	Range 31E	Lot Idn O	Feet From 660	N/S Line S	Feet From 1980	E/W Line E	County EDDY
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**8. Pool Information**

SAND DUNES,MORROW, NORTH (GAS)	84700
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**Additional Well Information**

9. Work Type New Well	10. Well Type GAS	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3471
14. Multiple N	15. Proposed Depth 15200	16. Formation Morrow	17. Contractor	18. Spud Date 3/6/2006
Depth to Ground water 75		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 20 _____ mils thick Clay <input type="checkbox"/> Pit Volume: 20000 _____ bbls Drilling Method: Closed Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input checked="" type="checkbox"/>				

**19. Proposed Casing and Cement Program**

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	700	530	0
Prod	8.75	5.5	20	15200	400	7900

**Casing/Cement Program: Additional Comments**

Drill 12 1/4" hole to 4500' for contingent 9.625" salt string. May set 7" string @ +/- 12,600' if hole conditions dictate. If 7" run, drill 6.125" to 15,200' & run 4 1/2" liner.

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	10000	5000	Shaffer
Annular	5000	2500	Shaffer

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input checked="" type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> . Printed Name: Electronically filed by Brad Hargrove Title: Manager Email Address: bhargrove@samson.com Date: 2/24/2006	OIL CONSERVATION DIVISION	
	Approved By: Bryan Arrant	
	Title: Geologist	
	Approved Date: 3/1/2006	Expiration Date: 3/1/2007
	Phone: 918-591-1939	
Conditions of Approval Attached		

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

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 ☒

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: **SAMSON RESOURCES CO** Telephone: **918/591-1386** e-mail address: **TKOSCELNY@SAMSON.COM**  
Address: **TWO WEST SECOND ST., TULSA, OK 74103-3103**  
Facility or well name: **Livingston Ridge State 36 #1** API #: \_\_\_\_\_ U/L or Qtr/Qtr \_\_\_\_\_ Sec. **36 T2S R31E**  
County: **Eddy** Latitude **32.34241** Longitude **-103.72888** NAD: 1927 ☒ 1983 ☐ Surface Owner Federal ☐ State ☒ Private ☐ Indian ☐

<b>Pit</b> Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness <b>20</b> mil Clay <input type="checkbox"/> Volume <b>20,000</b> bbl	<b>Below-grade tank</b> Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: _____	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	<b>50 feet or more, but less than 100 feet</b>	<b>(10 points)</b>
	100 feet or more	(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)
	<b>No</b>	(0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet	(10 points)
	<b>1000 feet or more</b>	(0 points)
Ranking Score (Total Points)		<b>0</b>

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.

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: **2/23/06**  
Printed Name/Title: **TOM KOSCELNY, ENVIRONMENTAL**

Signature: \_\_\_\_\_

**SUPERVISOR**  
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:

Date: \_\_\_\_\_

Printed Name/Title: \_\_\_\_\_

Signature: \_\_\_\_\_

## DISTRICT I

1628 N. FRANKLIN DR., DUBUQUE, NM 88240

## DISTRICT II

1201 W. GRAND AVENUE, ALBUQUERQUE, NM 87102

## DISTRICT III

1800 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources DepartmentOIL CONSERVATION DIVISION  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name <b>LIVINGSTON RIDGE STATE 36</b>	Well Number <b>1</b>
OCRID No.	Operator Name <b>SAMSON RESOURCES</b>	Elevation <b>3471'</b>

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	36	22-S	31-E		660	SOUTH	1980	EAST	EDDY

## 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 or Infill	Consolidation Code	Order No.						

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 that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unless mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*[Signature]* 2/2/06  
Signature Date  
*Brad P. Hargrove*  
Printed Name

## 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 supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 18, 2006

Date Surveyed LA  
Signature & Seal of  
Professional Surveyor

*[Signature]* 2/20/06  
06.11.0367

Certificate No. GARY EDSON 12641

GEODETIC COORDINATES  
NAD 27 NME

Y=488810.5 N  
X=686679.8 E

LAT.=32°20'32.67" N  
LONG.=103°43'43.96" W



# Permit Conditions of Approval

Operator: SAMSON RESOURCES CO , 20165

Well: LIVINGSTON RIDGE 36 STATE #001

API: 30-015-34644

OCD Reviewer	Condition
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	As noted in APD, operator to drill with 'fresh water' mud.
BArrant	Opearator to set surface casing in anhydrite section Rustler.
BArrant	Operator to submit a h2s contingency plan per NMOC D Rule 118 providing area meets requirements of rule. Otherwise, operator to submit a letter of statement.
BArrant	Please note change in lease name.