

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

MAR 02 2009

Form C-107  
Revised June 10, 2003

Filing Instructions  
At Bottom of Page

APPLICATION FOR MULTIPLE COMPLETION

30-015, 34644

Samson Resources

200 N Loraine, Ste 1010, Midland, TX 79701

Operator

Address

Livingston Ridge 36 State

1

O

36

22S

31E

Eddy

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

All applicants for multiple completion must complete Items 1 and 2 below.

1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Red Tank South Atoka		Sand Dunes North Morrow
b. Top and Bottom of Pay Section (Perforations)	13686' - 14237'		14446' - 14642'
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Shut In		Flowing
e. Daily Production <input checked="" type="checkbox"/> Actual <input type="checkbox"/> Estimated Oil Bbls. Gas MCF Water Bbls.	 0 0 0		 0 580 93

2. The following must be attached:

- Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

OPERATOR:

I hereby certify above information is true and complete to best of my knowledge, and belief.

Signature

Printed Name & Title

Kenny Krawietz - District Engineer

E-mail address

kkrawietz@samson.com

Date 2-6-09

Telephone 432-683-7063

OIL CONSERVATION DIVISION

Approved by

Title

Date

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

FILING INSTRUCTIONS:

- District Approval -- See rule 112-A-B -- Submit 4 copies of Form C-107 with attachments to appropriate district office.
- Division Director Administrative Approval -- See Rule 112-C -- Submit 2 copies of Form C-107 with attachments to Division office in Santa Fe

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State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Morrow  
Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-015-34644	<sup>2</sup> Pool Code B4900	<sup>3</sup> Pool Name Sand Dunes; Morrow N1
<sup>4</sup> Property Code 35467	<sup>5</sup> Property Name Livingston Ridge 36 State	<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 20165	<sup>8</sup> Operator Name Samson Resources	<sup>9</sup> Elevation 3471' GR

<sup>10</sup> Surface Location

UL or lot no. O	Section 36	Township 22S	Range 31E	Lot Idn	Feet from the 660	North/South line South	Feet from the 1980	East/West line East	County Eddy
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<sup>11</sup> 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
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<sup>12</sup> Dedicated Acres 320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

<sup>16</sup>				<p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</p> <p><i>[Signature]</i> 2/26/09 Signature Date</p> <p>K. D. KRAWIETZ Printed Name</p> <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>Date of Survey Signature and Seal of Professional Surveyor:</p> <p>Certificate Number</p>

GEODETIC COORDINATES  
NAD 27 NME

Y=488610 5 N  
X=685679 8 E

LAT =32°20'32 67" N  
LONG =103°43'43 96" W

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Revised October 12, 2005  
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-34644	<sup>2</sup> Pool Code 97563	<sup>3</sup> Pool Name Red Tank; Atsiko, S
<sup>4</sup> Property Code 35467	<sup>5</sup> Property Name Livingston Ridge 36 State	<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 20165	<sup>8</sup> Operator Name Samson Resources	<sup>9</sup> Elevation 3471' GR

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UL or lot no. O	Section 36	Township 22S	Range 31E	Lot Idn	Feet from the 660	North/South line South	Feet from the 1980	East/West line East	County Eddy
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GEODETIC COORDINATES  
NAD 27 NME

Y=488610.5 N  
X=685679.8 E

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

<b>WELL NAME:</b>	Livingston Ridge 36 State #1	<b>FIELD:</b> Red Tank South	<b>LSE#:</b> 039036
<b>STATE:</b>	NM	<b>COUNTY:</b> Eddy	<b>LOCATION:</b> 660' FSL & 1980' FEL of 36-22S-31E
<b>API NO:</b>	30-015-34644	<b>SPUD DATE:</b> 3/25/2006	<b>FORMATION:</b> Atoka
<b>TD:</b>	15230'	<b>PBTD:</b> 15206'	<b>ELEVATION:</b> 3471' GL

PIPE RECORD								CEMENT & HOLE DATA				
CSG	OD	GRADE	THD	WT/FT	TOP	BTM	# JTS	BIT SIZE	DEPTH	SX	WT.	TOC
Surf	13 375"	J55	ST&C	54 55#	0'	1576'	36	17 500"		795		Surf
Inter	9 625"	HCK-55	BTC	40 00#	0'	4615'	109	12 250"		1640		Surf
Inter	7 000"	HCP-110	LTC	26 00#	0'	12518'	305	8 750"		960		4000' est
Prod	4.500"	P-110	LTC	13 50#	0'	15230'	356	6 125"		750		7200'
Tbg	2 375"	P-110	RTS-8	4 70#	0'	13615'	436					

**Remarks:**

4-22-06: Wtr flow F/Bone Sprgs (8500' base of wtr flow) - sqz & cmt (600 sxs) 7" csg annulus

5-30-06: (Perfs 15074'-15092') Break down formation @ 2 7 BPM, @ 5438# Pumped 10 bbls

4% KCL in formation No gas

6-9-06: Set CIBP @ 14900' (Perfs 14620'-14642') Break down formation @ 4175#

Pumped 10 bbls 7% KCL after breakdown @ 3 6 BPM, @ 3714#

6-26-06: (Perfs 14620'-14642') Frac well w/50,000# 20/40 Bauxite, 180 tons Co2 downhole, and 500 bbls fluid

7-6-06: (Perfs 14446'-14451') Break down @ 4550# Pumped 10 bbls into formation @ 4675#, @ 5 bpm

7-10-06: (Perfs 14446'-14451') Frac w/49,745# 20/40 Bauxite, 136 tons CO2 downhole

Screened out with 9450# on formation

8-1-06: Set Arrowdrill permanent packer @ 14340'

8-12-06: Set RBP @ 14297'

8-21-06: (Perfs 13686'-14237') Acdz w/4500 gals 7 5% NeFe acid and 54 (1 3) SGBS.

Balled out w/32 balls on formation

10-12-06: Ran prod log Prod is from 13686'-13688'

6-28-07: (Perfs 13686'-14237') Frac w/354 bbls fluid, 102 tons Co2, and 23,300# 20/40 Bauxite

3-11-08: Ran 165 hr PBU test Last BHP 6032 psi

Test morrow perfs

2-09-09: Dual complete the Morrow and Atoka

CAPACITIES	(bbl/ft)	(ft/bbl)	(cf/ft)
TBG 2 375 in 4 7#	00387	258 65	02171
CSG 4 5 in 13 5#	01490	66 99	08380

VOLUME BETWEEN	(bbl/ft)	(ft/bbl)	(cf/ft)
TBGxCSG 2 375x4 5			
TBGxCSG			
CSGxHOLE			
TBGxHOLE			
TBGxHOLE			

PERFORATION RECORD					
DATE	TOP	BTM	ZONE	STATUS	SPF
5/30/2006	15088'	15092'	Morrow	Abandoned	4
5/30/2006	15074'	15080'	Morrow	Abandoned	4
6/9/2006	14630'	14642'	Morrow	Active	4
6/9/2006	14620'	14626'	Morrow	Active	4
7/6/2006	14446'	14451'	Morrow	Active	4
8/17/2006	14016'	14237'	Atoka	Active	2
8/17/2006	13686'	13970'	Atoka	Active	2

**Tbg Detail as of 02-26-09:**

1 jt 2 3/8 RTS 8 tbg

2' Sub RTS 8 Trd

10' RT S 8 Sub

436 jt s RTS 8 tbg

1 87 BXN Sliding Sleeve Open Down

24 j ts RTS 8 tbg

4 1/2 O/O tool w/ 1 81F profile seal assembly

4 1/2 Arrowdrill element s

4' 2 3/8 L-80 Sub

1 87XN Nipple

2 3/8 pump out plug

SRC Wt%:					
LOGS: CBL/GR/CCL, CSL, DLL/MGRD, SDN/DSN					
LANDMAN: Rita Buress		GEOLOGIST: Ron Johnson			
TUBULAR GOODS PERFORMANCE					
Material	ID (in)	Drift (in)	Collapse* (psi)	Burst* (psi)	Tensile* (lbs)
13 375" J55 ST&C 54.55#	12 615	12 459	1,130	2,730	514,000
7" HCP-110 LTC 26#	6 276	6 151	7,800	9,950	693,000
4 5" P-110 LTC 13 5#	3 920	3 795	10,670	12,410	338,000
* Safety Factor Not Included					

MJ @ 13033'

SS @ 13590'

MJ @ 14131'

13686' - 14237'

On/Off Tool @ 14338'

Perm Pkr @ 14340'

14446' - 14451' - Morrow

14620' - 14642' - Morrow

CIBP @ 14900'

15074 - 15080, 15088 - 15092 - Morrow

FC @ 15182'

FS @ 15228'

4 5" @ 15230'

PBTD @ 15206'

PREPARED BY: R Burditt

DATE: 5/26/2006

Updated: 9/4/2007 RB

OFFICE: (432) 683-7063

FAX: (432) 683-6847