

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 S. St. Francis Dr.
Santa Fe, NM 87505

Form C-101
May 27, 2004

Month - Year
FEB 20 2007
OCD - ARTESIA, NM

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address Samson Resources Company 200 N. Loraine Street, Ste 1010 Midland, TX 79701		² OGRID Number 20165
		³ API Number 30-015-33562
⁴ Property Code 300638	⁵ Property Name Pine Springs 2 State	⁶ Well No. 1
⁹ Proposed Pool 1 Cottonwood Spring (Atoka)		¹⁰ Proposed Pool 2 Wildcat; Wolfcamp

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	2	26S	25E		1980	North	810	West	Eddy

⁸ Proposed 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

Additional Well Information

¹¹ Work Type Code P	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3584
¹⁶ Multiple No	¹⁷ Proposed Depth 11345	¹⁸ Formation Atoka	¹⁹ Contractor	²⁰ Spud Date 10/30/04
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> _____mils thick Clay <input type="checkbox"/> Pit Volume: _____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 type="checkbox"/>				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Load hole w/produced water. Establish pump in rate and pressure.
ND tree, NU BOP, Rlse Pkr, POH.
TIH w/CR. Set CR @ 10700'. Press ann to 1000.
Cement Atoka perfs w/approx 100sx. Reverse out excess cement and POH.
TIH w/bit, DC's on 2 3/8" tbg. Drill out CR and cement and test to 1000 psi.
POH. RU WL and packoff. Re-perf Atoka (10814-10818', 10884-10891').
TIH w/pkr assy. Spot acid across perfs. Setpkr, test ann to 1000.
ND BOP. NU tree. Acidize w/1500 gal. Swab flow test.

Procedure continued on Page 2

²³ 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 ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Ken Krawietz
Title: District Engineer
E-mail Address: kkrawietz@samson.com
Date: 2/13/2007

Phone: (432) 683-7063

OIL CONSERVATION DIVISION

Approved by:

BRYAN G. ARANT
DISTRICT II GEOLOGIST

Title:

Approval Date: FEB 27 2007 Expiration Date: FEB 28 2008

Conditions of Approval Attached ☐

PINE SPRING 2 STATE #1

Recomplete to Wolfcamp

(Continue Form C-101, Item 22)

The Following May Vary Depending On Test Results:

Kill well. ND tree. NU BOP. POH w/pkr. RU WL.

Set RBP (CIBP if Atoka not commercial) @ 10784'.

Perf Wolfcamp (9823'-9830', 9917'-9971').

TIH w/ pkr. Spot acid across perfs.

Set pkr. Test ann to 1000.

Acidize Wolfcamp perfs w/2000 gal. Swab/Flow test.

Kill well. Release pkr and POH. TIH w/RBP retrieving head.

Release RBP and POH.

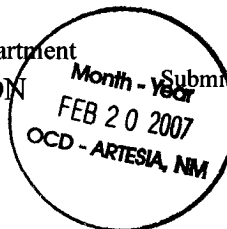
TIH w/pkr. Set pkr @ 9720±. Test ann to 1000.

ND BOP. NU tree. Swab well in and test.

Shut in awaiting commingling order.

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



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

¹ API Number 30-015-33562		² Pool Code	³ Pool Name Wildcat;Wolfcamp
⁴ Property Code 300638	⁵ Property Name Pine Springs 2 State		⁶ Well Number 1
⁷ OGRID No. 20165	⁸ Operator Name Samson Resources Co.		⁹ Elevation 3584' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	2	26S	25E		1980	North	810	West	Eddy

¹¹ 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

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

¹⁶ 	¹⁷ OPERATOR CERTIFICATION 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. Signature Date 02/12/2007 R. M. Burditt Printed Name			
	¹⁸ 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. Date of Survey Signature and Seal of Professional Surveyor:			
	Certificate Number			

CURRENT
(Before Proposed Plugback)

TOC @'
TOC@42'

DV Tool @
1500'

13.375" @402.57'

9.625" @522.7'

AS-1X 10k Pkr @ 10703'

10814-10818
10884-10891
10950-10952
10984-10986
10992-10994
11000-11002, 11012-11014

MJ@11105.61'

CIBP@11380' w/35' cmt on top (TOC @ 11345')
2.375" @10703'

11404-06

CIBP@11515'
11553-57

11638-40

CIBP@11660'
11672-74

Tagged w/GR @11788' (3/28/05)

FC@11854'

5.5" @11900'

FS@11900'

TD:11900'

WELL NAME: Pine Springs 2 State #1		FIELD: Cottonwood Spring		LSE#: 036847	
STATE: NM		COUNTY: Eddy		LOCATION: 1980' FNL & 810' FWL of 2-26S-25E	
API NO: 30-015-33562		SPUD DATE: 10/30/2004		FORMATION: Atoka	
TD: 11900'		PBTD: 11788' (3/28/05)		ELEVATION: 3584' GL	

PIPE RECORD								CEMENT & HOLE DATA				
CSG	OD	GRADE	THD	WT/FT	TOP	BTM	# JTS	BIT SIZE	DEPTH	SX	WT.	TOC
Surf	13.375"	H40	STC	48.00#	0'	403'	9	17.500"		450		42'
Inter	9.625"	N80	BTC	40.00#	0'	5227'	123	12.250"		3635		Surf
Prod	5.500"	P110	LTC	20.00#	0'	11900'	280	8.875"		1455		
Tbg	2.375"	L80	EUE 8rd	4.70#	0'	10703'	336					

Remarks:

11/17/04: Bond log found TOC on 9 5/8" @ 550'. Perf'd csg @ 520' and ran 510 sxs Prem Plus

3/17/05: Frac w/ 125,000# 18/40 VersaProp, 352 tons Co2 downhole.
Avg pump rate-34.8 BPM, Ave pressure-6642#.

8/4/05: First Sales (Morrow)

4/13/06: Acidize perms (10814' - 10891') w/2000 gals 7 1/2% NeFe. Dropped 33 ball sealers during job.
First Sales (Atoka)

5/30/06: Pump 2000 gal 15% ferachek. Flush 51 bbls 4% KCL

CAPACITIES			(bbl/ft)	(ft/bbl)	(cf/ft)
TBG: 2.375 in. 4.7#					
CSG: 9.625 in. 40#			.07580	13.19	.42570
CSG: 5.5 in. 20#			.02210	45.09	.12450

VOLUME BETWEEN			(bbl/ft)	(ft/bbl)	(cf/ft)
TBGxCSG: 2.375x9.625					
TBGxCSG:					
CSGxHOLE:					
TBGxHOLE:					
TBGxHOLE:					

PERFORATION RECORD					
DATE	TOP	BTM	ZONE	STATUS	SPF
3/15/2005	11672'	11674'	Morrow	Inactive	4
3/15/2005	11638'	11640'	Morrow	Inactive	4
3/15/2005	11553'	11557'	Morrow	Inactive	4
3/15/2005	11404'	11406'	Morrow	Inactive	4
5/26/2006	11012'	11014'	Atoka	Active	2
5/26/2006	11000'	11002'	Atoka	Active	N/A
5/26/2006	10992'	10994'	Atoka	Active	N/A
5/26/2006	10984'	10986'	Atoka	Active	N/A
5/26/2006	10950'	10952'	Atoka	Active	2
4/12/2006	10884'	10891'	Atoka	Active	2
4/12/2006	10814'	10818'	Atoka	Active	2

As of 5/31/06:
336 jts 2 3/8" 4.7# N80 EUE 8rd
O/O Tool
1.875" Profile
5 1/2" x 2 3/8" AS-1X 10k Pkr @ 10703'
2 3/8"x8' Pony Sub
1.875" N Nipple
EOT: 10712'

SRC W1%:
LOGS: Triple Combo (12/25/04)

LANDMAN: R. Buress
GEOLOGIST: R. Johnson

TUBULAR GOODS PERFORMANCE					
Material	ID (in)	Drift (in)	Collapse* (psi)	Burst* (psi)	Tensile* (lbs)
9.625" N80 BTC 40#	8.921	8.765	2,020	3,520	453,000
5.5" P110 LTC 20#	4.778	4.653	11,080	12,640	548,000
2.375" L80 EUE 8rd 4.7#	1.995	1.901	11,780	11,200	104,300

* Safety Factor Not Included

PREPARED BY: LeAnne Haskins
DATE: 6/8/2005
Updated: 6/8/2006 **RB**

OFFICE: (918) 583-1791
FAX: (918) 591-1702

PROPOSED

(After Proposed Plugback)

WELL NAME:	Pine Springs 2 State #1	FIELD:	LSE#: 036847
STATE:	NM	COUNTY:	Eddy
API NO:	30-015-33562	SPUD DATE:	10/30/2004
TD:	11900'	PBTD:	11788' (3/28/05)
		LOCATION:	1980' FNL & 810' FWL of 2-26S-25E
		FORMATION:	Atoka and Wolfcamp
		ELEVATION:	3584' GL

PIPE RECORD								CEMENT & HOLE DATA				
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Tbg	2.375"				0'	+9720'						

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CSGxHOLE:			
TBGxHOLE:			
TBGxHOLE:			

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4/12/2006	10884'	10891'	Atoka	Active	2
4/12/2006	10814'	10818'	Atoka	Active	2

Proposed Pkr @ +9720'

As of MM/DD/YYYY:

SRC WI%:

LOGS: Triple Combo (12/25/04)

LANDMAN: R. Bures

GEOLOGIST: R. Johnson

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9917'-9918'; 9969'-9971' Proposed Wfcomp Perfs

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PREPARED BY: LeAnne Haskins

DATE: 6/8/2005

Updated: 2/9/2007 Proposed

RB

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FAX: (432) 683-6847