

Submit 1 Copy to Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 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

Form C-103

October 13, 2009

RECEIVED

APR 14 2011

HOBBS

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO. 30-025-01037 ✓
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name STATE C AC 1 ✓
8. Well Number 4 ✓
9. OGRID Number 20165 ✓
10. Pool name or Wildcat SWD Devonian

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH  
PROPOSALS.)

1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: SWD
2. Name of Operator Samson Resources Company
3. Address of Operator Two West Second Street, Tulsa, OK 74103
4. Well Location Unit Letter M : 660 feet from the South line and 660 feet from the West line Section 2 Township 12S Range 33E NMPM Lea County
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4237' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Procedure - Scheduled Date April 25-29, 2011:

1. RU wireline and lubricator. Run gauge ring to top of window at 10852.
2. Run casing inspection log.
3. MIRU PU. NU 5k BOP. GIH w/ pkr on 2 7/8" WS. Pressure test casing above bad casing to 1000 psi.
4. GIH w/ 4-1/2" 11.6# L80 LTC liner w/ liner hanger packer and formation packer shoe. Set TOL @ 8700' or above bad 7" casing.
5. Cement w/ CIH w/ additives. Reverse out. Set liner hanger packer. POH.
6. GIH w/ bit and DC's on 2 3/8 x 2 7/8" WS. Test csg to 1000. Drill out float equipment.
7. GIH w/ retrievable pkr w/ on-off tool on 2 3/8 x 2 7/8" IPC tubing.
8. Circulate pkr fluid. Set pkr @ 10750'. Test ann to 1000. NU tree.
9. Run MIT test.

- Wellbore sketch attached.
- H2S is present - Equipment for H2S will be on location prior to commencement.

Spud Date:

Rig Release Date:

DENIED

SWD-277-0 EXPIRED  
Open hole above inj.  
Interval.  
Camp M. Hill  
575-393-6161  
EXT-102

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

SIGNATURE Autumn M. Long TITLE: Environmental Specialist DATE 4/12/2011

Type or print name: Autumn Long E-mail address: autumnl@samson.com PHONE: (303) 222-0965

For State Use Only

APPROVED BY: DENIED TITLE: DATE APR 19 2011

WELL:	State "C" A/C 1 #4 SWD	OPERATOR:	S R C	SPUD DATE:	6/19/1955
COUNTY:	Lea	LEASE#:	030253 -0004	LOCATION:	Sec 2-T12S-R33E
STATE:	New Mexico	FIELD:	Bagley Hightower		660' FSL & 660' FWL
API:	30-025-01037-0000	FORMATION:			
TD:	11,275'				
PBTD:	11,275'	ELEVATION:	4,255' KB	ZERO DATUM:	13.0' FT. ABOVE: GL

#### CASING RECORD

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
13.375"	48.00#	H40	ST&C	0'	319'		17.000"	350	Surface
9.625"	36.00#	J55	LT&C	0'	3,876'		12.000"	2800	Surface

#### PRODUCTION CASING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
7.000"	23.00#	N80		0'			8.750"	1825	4,710'
7.000"	26.00#	N80					8.750"		(by T.S.)
7.000"	29.00#	N80			11,019'		8.750"		

#### TUBING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.
3.500"	9.30#		EUE	0'		287	
3.000"	9.30#	N80	EUE		10,723'	53	

#### PERFORATION RECORD

DATE	TOP	BOTTOM	SPF	ZONE	STATUS
10/23/55	9,000'	9,022'	4	Penn	Sqz'd
10/23/55	9,022'	9,048'	8	Penn	Sqz'd
07/18/73	9,844'	9,968'		Penn	Sqz'd
09/02/73	9,492'	9,760'		Penn	Sqz'd
09/25/73	9,370'	9,454'		Penn	Sqz'd
11/02/88	10,852'	11,275'		Devonian	Open Hole

#### TREATMENT

10/23/1955	Perf'd Penn zone f/9000'-9,048' and treated w/500 gals mud acid and 1500 gals regular acid.
7/18/1973	Set CIBP @ 10,000', PBTD @ 9998'. Sqz'd Penn perms w/175 sxs. Perf'd f/9844'-9968' and acidized w/5,000 gals 15% acid.
9/2/1973	Acidized perms f/9492'-9760' w/2,000 gals 15% acid. No show of oil or gas. Added perms 9370'-9454' and acidized w/5000 gals 15%. Set CIBP @ 9470'. Converted from hydraulic to rod pump.
12/17/1974	Well TA'd after several pulling jobs.
9/10/1987	Deepened well to 11430' and converted to SWD. Sqz'd perms f/9370'-9454'.
9/6/1988	Drilled out CIBP @ 9470'-9472'. Tagged CIBP @ 9987'. Sqz'd perms f/9492'-9760' & f/9844'-9968'. Tagged CIBP @ 9987'. Drilled plug f/9997'-9998'. DO CIBP @ 10979'.
9/10/1988	Fell free to 10,999'. Drilled to 11013'. Problems w/FIH; attempted to recover. Set whipstock #1 @ 10936'; Set whipstock #2 @ 10869'.
11/18/1988	Began drilling 5.875" OH; TD @ 11,240'. Attempted to put well on injection; would not take water @ 2000 psi.
7/18/1989	Worked over well to re-establish injection.
5/2/1995	Acidized w/8000 gals 15% HCL & 3000 gals gelled brine w/2 ppg.
6/2/1996	Acidized w/4000 gals 15% HCL.
11/2/1998	SRC took over operations from ORYX.
12/29/1998	Acidized OH w/5000 gals 15% NeFe acid. AIR 120 psi @ 3.4 BPM. Pre-work rate=1510 BWPD, 185 psi. Post-work rate=22000 BWPD, vacuum.
8/23/1999	Load casing w/1 BW. Pump 1500 gals 15% NEFE with 1.5 gals Low-Surf 300 and 1.5 gals HAI81 Flush w/93 bbls produced water. Ave psi=355, Max psi=841, Ave rate=3.4 BPM, Max rate=4.3 BPM, ISIP=101 psi. Returned well to injection.
6/18/03:	Acidized tbq w/2000 gal 15% HCL w/2 gal EP-3 NE, 4 gal 1-3 inhibitor, 10 gal LAC
11/4/03:	Acidized tbq w/3500 gal 15% HCL w/2 gal EP-3 NE, 4 gal 1-3 inhibitor, 10 gal LAC
12/1/03:	Mechanical Integrity Test
05/14/10:	Csg leak, failed MIT pkr and tbq pulled. Located leak 9381-9413'.

Comments: 5.875" Open Hole Sidetracked @ 10,852'-11,275'

#### MISCELLANEOUS

SRC Wt%:	100.00%	BHT:	
ZONE PENALTY:		BHP:	
COMPETITIVE:		EST SITP:	
FERC CLASS:		EST WHSIP:	
FORCE POOL:		COMPRESSOR DETAIL:	
SRC OFFSET/ZONE:		PUMPING UNIT DETAIL:	
LOGS:	Gamma Ray, Caliper Log		

#### CAPACITIES

Tubular Cap.	Bbl/ft	Ft3/ft
Tubing(3.0#)		
Tubing(3.5#)	0.00871	0.04888
Casing (23#)	0.03936	0.22100
Casing (26#)	0.03826	0.21480
Casing (29#)	0.03714	0.2085
Annular Cap.	Bbl/ft	Ft3/ft
Tbg(3.5#) x Casing(23#)	0.02746	0.15420
Tbg(3.5#) x Casing(26#)	0.02636	0.14800
Tbg(3.5#) x Casing(29#)	0.02524	0.14170

#### TUBULAR GOODS PERFORMANCE

Material	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID (in)	Drift (in)
13.375" 48# H40 ST&C	322,000	1,730	770	12.715	12.559
9.625" 36# J55 LT&C	453,000	3,520	2,020	8.765	8.921
7" 23# N80	442,000	6,340	3,830	6.366	6.241
7" 26# N80	519,000	7,240	5,410	6.276	6.151
7" 29# N80	597,000	8,160	7,020	6.184	6.059
3.5" 9.3# EUE				2.922	2.867
3" 9.3# N80 EUE					

\*Assumed all 7" casing is LT&C.

\*Safety Factor Not Included

Engineer: Eric Outlaw  
Office#: 918-591-1929  
Home#:

Prepared By: Sarah White  
Date: 12-9-96  
Updated: 6-10-97  
6/22/2010' gls



SUITE 3000  
370 17<sup>TH</sup> ST  
DENVER CO 80202  
USA  
720/587-2500  
FAX: 720/904-1392

SENT VIA FEDERAL EXPRESS AND EMAIL

April 12, 2011

State of New Mexico  
Energy, Minerals and Natural Resources Department  
1220 South St., Francis Drive  
Santa Fe, New Mexico 87505

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APR 14 2011  
HOBBSOCD

Reference: Samson Resources Company  
Form C-103  
State C A/C 1 #4 SWD - Lea County, NM

Dear Mr. Gonzales:

Please find enclosed the Form C-103 and an updated wellbore diagram for the State C A/C 1 #4 SWD well located in Lea County, New Mexico.

Please do not hesitate to contact me at (303) 222-0965, if additional information is required.

Thank you.

Sincerely,

SAMSON

*Autumn M. Long*  
Autumn Long  
Environmental Specialist

DB:

Enclosures

Cc: State of New Mexico  
Energy, Minerals and Natural Resources Department  
District 1  
Attn: Mr. Elidio Gonzales  
1625 N. French Drive  
Hobbs, New Mexico  
[elidiol.gonzales@state.nm.us](mailto:elidiol.gonzales@state.nm.us)

Engineering- File