

PTGW

DATE IN <u>6.10.11</u>	SUSPENS <u>9/11/11</u>	ENGINEER <u>WVT</u>	LOGGED IN <u>6.10.11</u>	TYPE <u>SWD</u>	APP NO. <u>1116145084</u>
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8/26/11

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



SAMSON 20165

State CA/C1 #45000

ADMINISTRATIVE APPLICATION CHECKLIST 30-028-01037

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____

Request Letter for more notices sent 7/16/11 Responses 8/26/11

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name _____	Signature _____	Title _____	Date _____
e-mail Address _____			

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: Samson Resources Company
ADDRESS: Two West Second Street, Tulsa, OK 74103-3103
CONTACT PARTY: Kenneth Krawietz PHONE: (432) 686-6337
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
- Proposed average and maximum daily rate and volume of fluids to be injected;
 - Whether the system is open or closed;
 - Proposed average and maximum injection pressure;
 - Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re injected produced water; and,
 - If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Kenneth Krawietz TITLE: Manager-Division Operations
SIGNATURE:  DATE: 8/19/2011
E-MAIL ADDRESS: kkrawietz@samson.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: Application submitted in 1984 by Sun Exploration and Production Company; Permit Order No. SWD-277 approved August 8, 1984; acquired by Samson Resources Company

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

RECEIVED
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III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

SENT VIA FEDERAL EXPRESS

August 26, 2011

State of New Mexico
Energy, Minerals and Natural Resources Department
Attention: Mr. William V. Jones
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Reference: Samson Resources Company
Application for Authorization to Inject Form C-108
State C A/C 1 #4 SWD
Lea County, NM

Dear Mr. Jones:

Please find enclosed one original and one copy of the following required documents for an *Application for Authorization to Inject* into the State C A/C 1 #4 SWD in Lea County, New Mexico:

1. Form C-108
2. Map that identifies all wells and leases within 2 miles and a ½ mile radius defining the area of review .
3. Tabulation of wells within the area of review
4. Schematic of P&A'd wells within area of review.
5. Data on the injection operation
6. Injection water analysis and formation water analysis
7. Chemical Analysis of Fresh Water Wells from two or more fresh water wells
8. Wellbore schematic
9. No stimulation program anticipated
10. Logs provided to the State of New Mexico, Oil Conservation Division in 1984 (document imaging available)
11. Affirmative Statement
12. Proof of Notice - Application submitted, via certified mail, to the Surface Owner, each lease hold Operator and Working and Mineral Interest Owners within ½ mile of the above referenced well.
13. Proof of Notice - Photocopy of published newspaper Legal Notice and Affidavit of same will be forthcoming under separate cover.

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State of New Mexico
Energy, Minerals and Natural Resources Department
Page 2
8/26/2011

Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON



Debbie Bedingfield
Environmental & Safety Technician

DB:

Enclosures

Cc: State of New Mexico
Energy, Minerals and Natural Resources Department
District 1
1625 N. French Drive
Hobbs, New Mexico

Engineering- File

INJECTION WELL DATA SHEET

OPERATOR: Samson Resources Company

WELL NAME & NUMBER: State C.A/C.1 #4 SWD

WELL LOCATION: 660 FSL & 660 FWL M 2 SECTION 12S TOWNSHIP 33E RANGE
UNIT LETTER FOOTAGE LOCATION

WELLBORE SCHEMATIC (See Attached)

WELL CONSTRUCTION DATA
Surface Casing

Hole Size: 17" Casing Size: 13 3/8" @ 319'
Cemented with: 350 sx. or ft³

Top of Cement: Surface Method Determined: Circulated
Intermediate Casing

Hole Size: 12" Casing Size: 9 5/8"
Cemented with: 2800 sx. or ft³

Top of Cement: Surface Method Determined:
Production Casing

Hole Size: 8 6/8" Casing Size: 7"
Cemented with: 1825 sx. or ft³

Top of Cement: 4710' Method Determined: Temp. Survey
Total Depth: 11,275'

Injection Interval
10,852 feet to 11,275 feet

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" x 2 3/8" Lining Material: Plastic

Type of Packer: Arrow

Packer Setting Depth: 10,752'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

- 1. Is this a new well drilled for injection? _____ Yes No

If no, for what purpose was the well originally drilled? Not a new well; drilled for Producer in 1951.

Converted to Injection 1985. Sidetracked @ 10,852' in 1988 and drilled to TD 11,275'.

- 2. Name of the Injection Formation: Devonian; the packer setting depth is 10,752' which is in the Mississippian formation. The Mississippian is tight and not productive. The Devonian will take water on a vacuum, so injected water will be entering the Devonian formation. The Devonian formation and Penn formation are isolated from each other.

- 3. Name of Field or Pool (if applicable): Bagley - Devonian

- 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. 9000' - 9968' (sqzd with 175 sxs cmt)

- 5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Devonian Formation - Top 10,920'

Mississippian - Top 10,365' (not productive in the field)

Penn Top - 8,672'

"BEFORE"

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'	ELEVATION: 4,255' KB	ZERO DATUM: 13.0' FT. ABOVE: GL
PBTD: 11,275'		

13 3/8" set @ 319'

CASING RECORD									
SURFACE CASING									
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

9 5/8" set @ 3876'

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"		

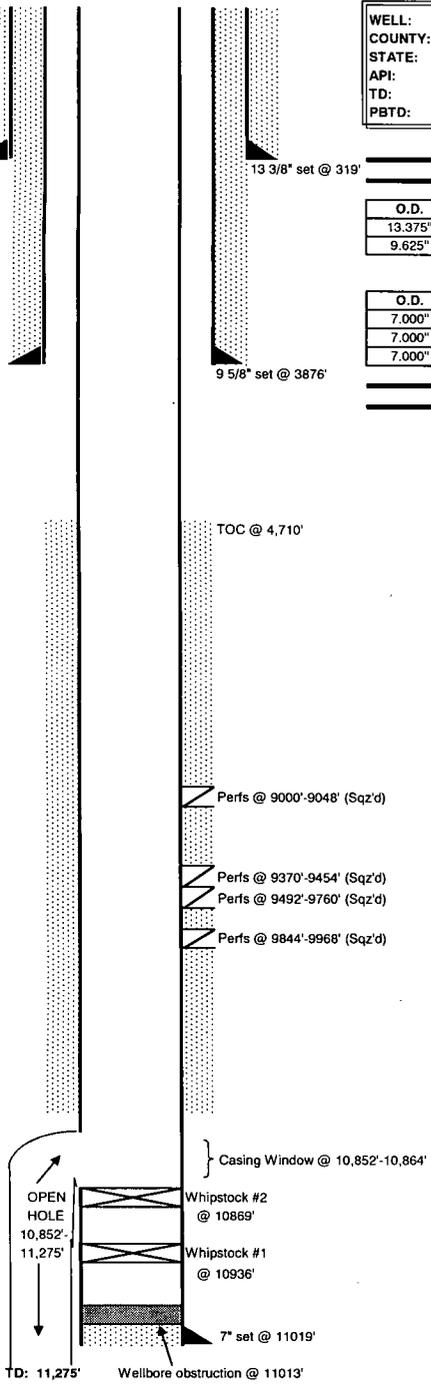
TUBING							
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.
3.500"	9.30#		EUE	0'			287
3.000"	9.30#	N80	EUE		10,723'		53

TOC @ 4,710'

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'.
12/17/1974	Converted from hydraulic to rod pump.
9/10/1987	Well TA'd after several pulling jobs.
9/6/1988	Deepened well to 11430' and converted to SWD. Sqz'd perms f/9370'-9454'.
9/10/1988	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'.
	Fell free to 10,999'. Drilled to 11013'. Problems w/FlH; 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 tbg w/2000 gal 15% HCL w/2 gal EP-3 NE, 4 gal 1-3 inhibitor, 10 gal LAC
11/4/03:	Acidized tbg 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 tbg 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 WHSP:
FORCE POOL:	COMPRESSOR DETAIL:
SRC OFFSET/ZONE:	
LOGS: Gamma Ray, Caliper Log	PUMPING UNIT DETAIL:

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

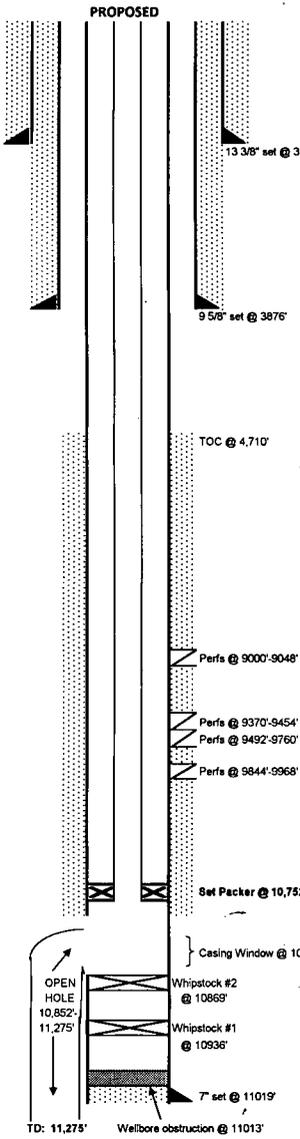
Material	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID (in)	Drift (in)
13.375" 48# H40 ST&C	322,000	1,730	770	12.715	12.559
9.625" 36# J55 LT&C	453,000	3,520	2,020	8.765	8.921
7" 23# N80	442,000	6,340	3,830	6.366	6.241
7" 26# N80	519,000	7,240	5,410	6.276	6.151
7" 29# N80	597,000	8,160	7,020	6.184	6.059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

"AFTER"

WELL: Slate "C" AC 1 #4 SWD	OPERATOR: S R C	SPUD DATE: 6/19/1951
COUNTY: Lea	LEASE#: 030253 -0004	LOCATION: Sec 2-T12S-R33E
STATE: New Mexico	FIELD: Bagley	660' FSL & 660' FWL
API: 30-025-01037-0000	FORMATION Devonian	
TD: 11,275'	ELEVATION: 4,255' KB	ZERO DATUM: 13.0' FT. ABOVE: GL
PBTD: 11,275'		



CASING RECORD									
SURFACE CASING									
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.
2.875"							

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
08/02/73	9,432'	9,760'		Penn	Sqz'd
08/25/73	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 axs. Perf'd f/9844'-9968' and acidized w/5,000 gals 15% acid.
8/2/1973	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'.
12/17/1974	Converted from hydraulic to rod pump.
9/10/1987	Well TA'd after several pulling jobs.
9/6/1988	Deepened well to 11430' and converted to SWD. Sqz'd perms f/9370'-9454'.
9/10/1988	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' - 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.
	Worked over well to re-establish injection.
5/2/1995	Acidized w/8000 gals 15% HCL & 3000 gals gelled brine w/2 ppg.
8/23/1996	Acidized w/4000 gals 15% HCL
11/21/1998	SRP took over operations from ORYX.
12/29/1998	Acidized OH w/5000 gals 15% NaFe 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.
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11/4/03:	Acidized tbg 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 tbg pulled. Located leak 9381-9413'.

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

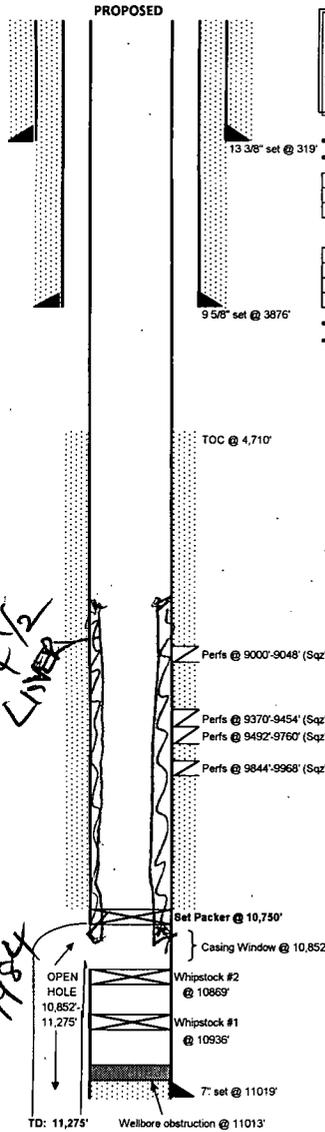
MISCELLANEOUS	
SRC WPL:	100.00%
ZONE PENALTY:	BHT:
COMPETITIVE:	BHP:
FERC CLASS:	EST SITP:
FORCE POOL:	EST WHSIP:
SRC OFFSET/ZONE:	COMPRESSOR DETAIL:
LOGS: Gamma Ray, Caliper Log	PUMPING UNIT DETAIL:

CAPACITIES		
Tubular Cap.	Bbl/ft	Ft/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	Ft/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
2.875" #				2.922	2.867

*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 gis



WELL:	State "C" A/C 1 #4 SWD	OPERATOR:	S R C	SPUD DATE:	6/19/1951
COUNTY:	Lea	LEASE:	030253 -0004	LOCATION:	Sec 2-T12S-R33E
STATE:	New Mexico	FIELD:	Bagley		660' FSL & 660' FWL
API:	30-025-01037-0000	FORMATION:	Devonian		
TD:	11,275'	ELEVATION:	4,255' KB	ZERO DATUM:	13.0' FT. ABOVE: GL
PBTD:	11,275'				

CASING RECORD									
SURFACE CASING									
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"	25.00#	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.
2.875"							

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

TREATMENT	
10/23/1955	Perf'd Penn zone 1/9000'-9,048' and treated w/500 gals mud acid and 1500 gals regular acid.
7/18/1973	Set CIBP @ 10,000', PBTD @ 9998'. Sq'd Penn perfs w/175 sxs. Perf'd 1/9844'-9968' and acidized w/5,000 gals 15% acid.
9/2/1973	Acidized perfs 1/9492'-9760' w/2,000 gals 15% acid. No show of oil or gas. Added perfs 9370'-9454' and acidized w/5,000 gals 15%. Set CIBP @ 9470'.
12/17/1974	Converted from hydraulic to rod pump.
9/10/1987	Well TA'd after several pulling jobs.
9/6/1988	Deepened well to 11,430' and converted to SWD. Sq'd perfs 1/9370'-9454'.
9/10/1988	Drilled out CIBP @ 9470'-9472'. Tagged CIBP @ 9987'. Sq'd perfs 1/9492'-9760' & 1/9844'-9968'. Tagged CIBP @ 9987'. Drilled plug 1/9997'-9998'. DO CIBP @ 10979'.
11/18/1988	Fell free to 10,999'. Drilled to 11,013'. Problems w/FIH; attempted to recover. Set whipstock #1 @ 10936'. Set whipstock #2 @ 10869'.
7/18/1989	Began drilling 5.875" OH; TD @ 11,240'. Attempted to put well on injection; would not take water @ 2000 psi.
5/2/1995	Worked over well to re-establish injection.
8/2/1995	Acidized w/8000 gals 15% HCL & 3000 gals gelled brine w/2 ppg.
8/2/1996	Acidized w/4000 gals 15% HCL.
11/2/1998	SRG took over operations from ORYX.
12/29/1998	Acidized OH w/5000 gals 15% HCl 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 HAJ81. Flush w/93 bbls produced water. Ave psi=355, Max psi=841, Ave rate=3.4 BPM, Max rate=4.3 BPM, [SIP]=101 psi. Returned well to injection.
8/18/03	Acidized tbg w/2000 gal 15% HCL w/2 gal EP-3 NE, 4 gal 1-3 inhibitor, 10 gal LAC
11/4/03	Acidized tbg 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 tbg pulled. Located leak 9381-9413'.

- PROPOSED PROCEDURE**
1. RU wireline and lubricator. Run gauge ring to 10800'.
 2. MIRU PU. NU 5k BOP.
 3. GIH w/ form pkr shoe, FC, 4-1/2" 11.6# L80 LTC liner w/ liner hanger packer and tieback sleeve.
 4. Set shoe @ 10800' ±. Set TOL @ 8800' ±.
 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. Drill out float equip. Test csg to 1000.
 7. GIH w/ retrievable pkr w/ on-off tool on 2 3/8 X 2 7/8" IPC tubing.
 8. Circ pkr fluid. Set pkr @ 10750'. Test ann to 1000. NU tree.
 9. Run MIT test.
- H2S is present. Will have H2S equipment on location prior to commencement.

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

OLD

1984

OPEN HOLE

11,275'

10,852'

10869'

10750'

11019'

Wellbore obstruction @ 11013'

MISCELLANEOUS

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

CAPACITIES

Tubular Cap.	Capacities	
	Bbl/ft	Flt/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.		
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
2.875" #				2.922	2.867

*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 gis

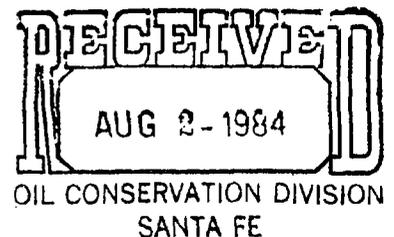
State C A/C 1 #4

A review of the Devonian producers in the Bagley Devonian field has been done prior to converting the Sun State "C" A/C 1 No.4 to salt water disposal. The Sun State "C" A/C 1 No.5 is producing from a subsea of -6573 which is Sun's lowest producing interval in the field. However, Amerada Hess has two wells producing structurally lower than Sun. The Amerada "BTI" No.1 located in the NW/4 of the NW/4, Section 2, (Unit Letter "D") T-12-S, R-33-E, is presently producing from a subsea of -6625. The Amerada "BTD" No.2 located in the NW/4 of the SE/4, Sec. 35, (Unit Letter "J"), T-11-S, R-33-E, is presently producing from a subsea of -6633 which is the lowest producing horizon within this faulted anticline of the Bagley Devonian field.

The Sun State "C" A/C 1 No. 4 encountered the top of the Devonian at -6661 which is 28 feet structurally lower than the lowest producing interval in the Bagley Devonian field. Therefore, salt water disposal in the subject well should not in any way have adverse effects to the primary production in this field.



Bob Walker
Area Geologist
SUN EXPLORATION & PRODUCTION CO.



Submit 1 Copy to Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88218
 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
 HOBBSDO

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
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4237' GR

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 Gas Well 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 /

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

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:

- RU wireline and lubricator. Run gauge ring to top of window at 10852.
- Run casing inspection log.
- MIRU PU. NU 5k BOP. GIH w/ pkr on 2 7/8" WS. Pressure test casing above bad casing to 1000 psi.
- 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.
- Cement w/ CI H w/ additives. Reverse out. Set liner hanger packer. POH.
- GIH w/ bit and DC's on 2 3/8 x 2 7/8" WS. Test csg to 1000. Drill out float equipment.
- GIH w/ retrievable pkr w/ on-off tool on 2 3/8 X 2 7/8" IPC tubing.
- Circulate pkr fluid. Set pkr @ 10750'. Test ann to 1000. NU tree.
- Run MIT test.
 - Wellbore sketch attached.
 - H2S is present - Equipment for H2S will be on location prior to commencement.

DENIED

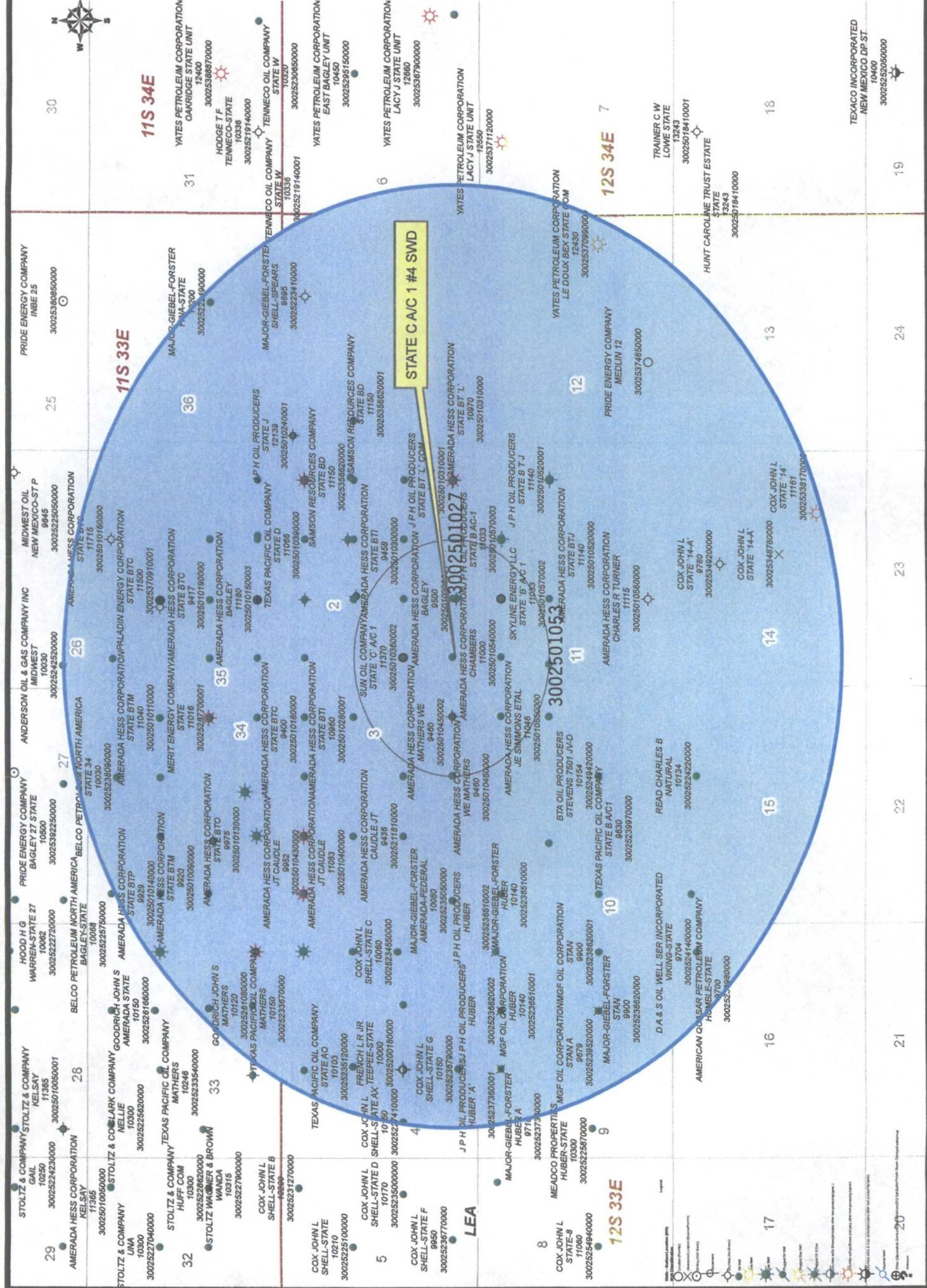
SWD-277-0 Expired
 Open hole above inj.
 Interval.
 Campbell Hill
 575-393-6161
 EXT-102

Spud Date: Rig Release Date:

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

APPROVED BY: **DENIED** TITLE _____ DATE APR 19 2011



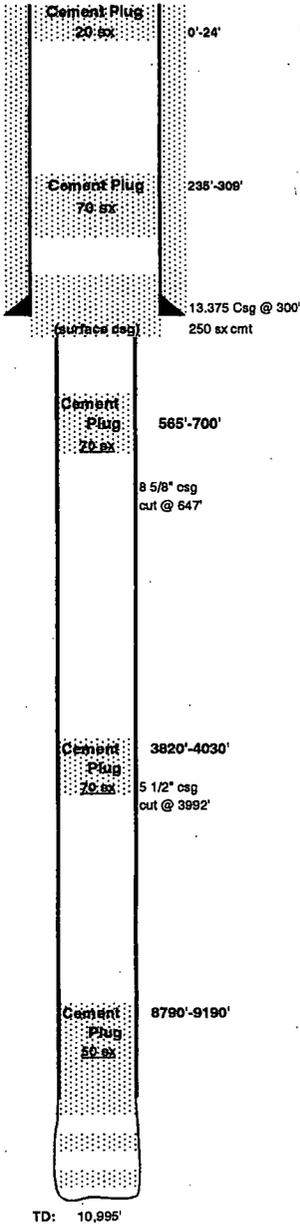
TWO MILE AND HALF MILE RADIUS

0.0025 0.005 0.01
Decimal Degrees

**State C A/C 1 #4 SWD
Lea County, NM**

Table of Wells within 1/2 mile that penetrate proposed injection zone (10,852' - 11,275')

Operator	Lease Name	Well #	API Number	Type	Unit/Location	Date Drilled	Completion Date	Total Depth	Producing Formation	Status
Hess Corporation	State BT D	1	30-025-01027	Oil	N-02-12S-33E	8/8/1949	12/6/1949	10995'	Bagley Siluro-Devonian	PA D (Schematic Attached)
Paladin Energy Corporation	State BT I	1	30-025-01028	Oil	D-02-12S-33E	8/14/1950	12/2/1950	10960'	Siluro-Devonian	Active
Samson Resources Co.	State C A/C 1	3	30-025-01036	SWD	L-02-12S-33E	4/3/1954	8/19/1969	11,034' (11,370')	Devonian	Active
Hess Corporation	Bagley SWD	3	30-025-01053	Oil	F-11-12S-33E	Unknown		11040'	Penn	PA D (Schematic Attached)
Northstar Operating Company	L.H. Chambers	2	30-025-01054	Oil	C-11-12S-33E	Unknown		11,000'	Penn	PA D (Schematic Attached)
Hess Corporation	J.E. Simmons Etal #1	1	30-025-01055	Oil	D-11-12S-33E	12/9/1949	4/16/1950	11046'	Penn	PA D (Schematic Attached)



WELL: State BT "D" #1 **SPUD DATE:** 8/8/1949 **FIELD:** BagleyStrawn
COUNTY: Lea **RR DATE:** **LOCATION:** N-Sec. 2-12S-33E
STATE: New Mexico **COMP DATE:** 12/6/1949 **DISTANCE:** 660' FSL & 1980 FWL
API #: 30-025-01027 **P&A Date:** 5/30/73 **FORMATION:** Bagley Siluro-Devonian
TD: 10,995' **PBTD:** **ELEVATION:** 4250'

CASING RECORD

SURFACE AND INTERMEDIATE CASING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
13.375"	54.50#				300'			250	
8.825"	32.00#				3,600'			1000	

PRODUCTION CASING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
5.500"	17.00#				10,980'			600	

TUBING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	PKR

PERFORATION RECORD

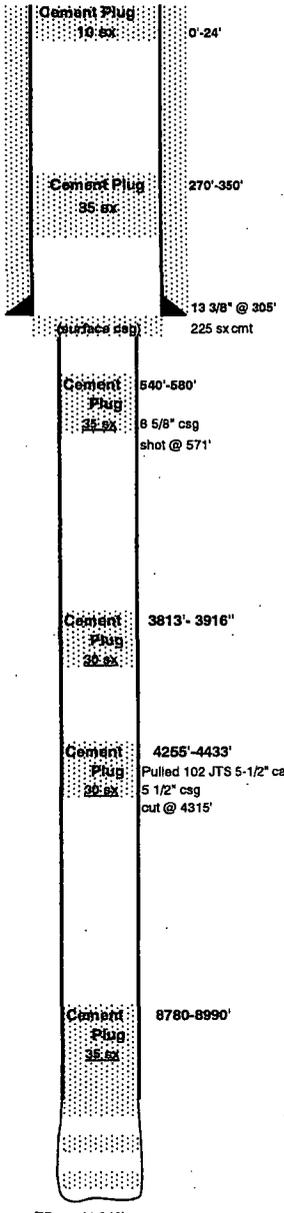
DATE	TOP	BOTTOM	SPF	ZONE	STATUS

P&A Report

LOADED HOLE WITH SALT WATER MUD
 SPOTTED 50 SX. CEMENT PLUG IN 5-1/2" CASING FROM 8790' TO 9190'
 CUT 5-1/2" CASING AT 3992'
 SPOTTED 70 SX CEMENT PLUG FROM 3820' TO 4030'
 CUT 8-5/8" CASING AT 647'
 SPOTTED 70 SX CEMENT PLUG FROM 700' TO 565'
 70 SX CEMENT PLUG FROM 235' TO 309' AND 20 SX. CEMENT PLUG FROM 24' TO SURFACE
 INSTALLED DRY HOLE MARKER
 WELL PLUGGED AND ABANDONED - 5/30/1973

SOURCE: State of New Mexico Oil Conservation Division Document Imaging Database (Form C-103 Subsequent Report of Plug and Abandonment)

TD: 10,995'



WELL: J. E. Simmons #1 SPUD DATE: 12/9/1949 FIELD: BagleyPenn
 COUNTY: Lea RR DATE: LOCATION: D-Sec. 11-12S-33E
 STATE: New Mexico COMP DATE: 4/16/1950 DISTANCE: 660' FNL & 680' FWL
 API #: 30-025-01055 P&A Date: 2/15/59 FORMATION: Pennsylvanian

TD: 11,046' PBTD: ELEVATION:

CASING RECORD

SURFACE AND INTERMEDIATE CASING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
13.375"					305'			225	
8.625"					3,866'			1500	

PRODUCTION CASING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
5.500"					9,450'			600	

TUBING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	PKR

PERFORATION RECORD

DATE	TOP	BOTTOM	SPF	ZONE	STATUS
1959	9,000'	9,040'			
1959	9,580'	9,396'			

P&A Report

RIGGED UP AND PULLED TUBING, RERAN OPENED ENDED AND SPOTTED 35 SX CEMENT PLUG FROM 8990' TO 8780' CUT OFF 5-1/2" CASING @ 4315' PULLED 102 JTS 5-1/2" CASING FOR TOTAL OF 4338' SPOTTED 30 SX CEMENT PLUG IN AND OUT OF TOP 5 1/2" CASING FROM 4255'-4433' SPOTTED 30 SX CEMENT PLUG FROM 3813' TO 3916' IN AND OUT OF BOTTOM OF 8-5/8" CASING. SHOT 8 5/8" CASING OFF @ 571' RECOVERED 553' CASING. SPOTTED 35 6X OF CEMENT PLUG IN AND OUT OF TOP OF 8 5/8" CASING FROM 540'-580' SPOTTED 30 SX CEMENT PLUG IN AND OUT OF BOTTOM OF 13-3/8" CASING FROM 270' TO 350' SPOTTED 10 SX PLUG IN TOP OF 13-3/8" CASING W/ 4" DRY HOLE MARKER IN TOP OF 13-3/8" CASING DATE WORK PERFORMED 2-5 TO 2-10-1959

SOURCE: State of New Mexico Oil Conservation Division Document Imaging Database (Form C-103 Subsequent Report of Plug and Abandonment)

TD: 11,046'

SAMSON RESOURCES COMPANY

State C A/C 1 #4 SWD

API No. 30-025-01037

Section: 2-T12S-R33E

Lea County, NM

Average Daily Injection Rate (approx.) : 3,500 BWPD

Maximum Daily Injection Rate (approx.): 7,000 BWPD

System: Closed

Average Injection Pressure: 125 psi

Maximum Injection Pressure: 1000 psi

Source: Devonian Produced Water

1/24/01

Address: 4419 Harlowe

30253

Customer: Samson Resources Company
Attention: Floyd Steed

Midland, TX 79703

Lease: St C A/C1

Formation:

Target Name: St C A/C 1 1

Sample Point: St C A/C 1 1

Sample Date: 01/15/2001

Test Date: 01/23/2001

Water Analysis(mg/L)

Calcium	2165
Magnesium	660
Sodium	
Strontium	
Sodium(calc.)	18590
Carbonate Alkalinity	1098
Sulfate	2495
Chloride	32000

Appended Data(mg/L)

CO2	290
H2S	0
Iron	0

Physical Properties

Ionic Strength(calc.)	1.08
pH(calc.)	
Temperature(°F)	90
Pressure(psi)	50
Density	8.66

Additional Data

Specific Gravity	1.04
Total Dissolved Solids(Mg/L)	57028
Total Hardness(CaCO3 Eq Mg/L)	8199

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

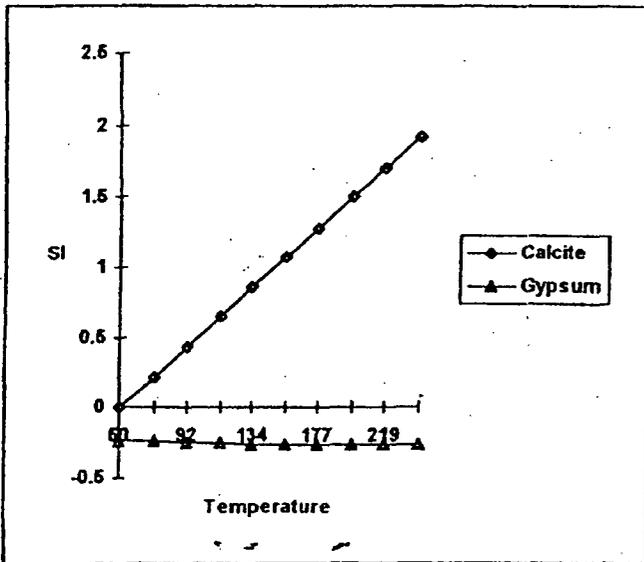
Calculation Method	Value
Known pH	6.90

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.41	211.90
Gypsum (Calcium Sulfate)	-0.25	
Hemihydrate (Calcium Sulfate)	-0.23	
Anhydrite (Calcium Sulfate)	-0.43	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

	Calcite	Gypsum
50	0.01	-0.23
71	0.22	-0.24
92	0.43	-0.25
113	0.65	-0.25
134	0.86	-0.26
156	1.07	-0.26
177	1.28	-0.26
198	1.50	-0.26
219	1.71	-0.26
240	1.92	-0.26

API # 30-025-01034
 Basley Field
 Siluro-Devonian Formation
 Within 1 mile of
 State A/C #4 SWD
 Sec. 2-T12S-R33E

Customer: Samson Resources Company
 Attention: Floyd Steed

Midland, TX 79703

Lease: St C A/C 1

Formation:

Target Name: St C A/C 1 2

Sample Point: St C A/C 1 2

Sample Date: 01/15/2001

Test Date: 01/23/2001

Water Analysis(mg/L)

Calcium	2005
Magnesium	535
Barium	
Strontium	
Sodium(calc.)	19006
Bicarbonate Alkalinity	1171
Sulfate	2350
Chloride	32000

Appended Data(mg/L)

CO2	320
H2S	0
Iron	2

Physical Properties

Ionic Strength(calc.)	1.07
pH(calc.)	
Temperature(*F)	90
Pressure(psia)	50
Density	8.66

Additional Data

Specific Gravity	1.04
Total Dissolved Solids(Mg/L)	57067
Total Hardness(CaCO3 Eq Mg/L)	7205

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

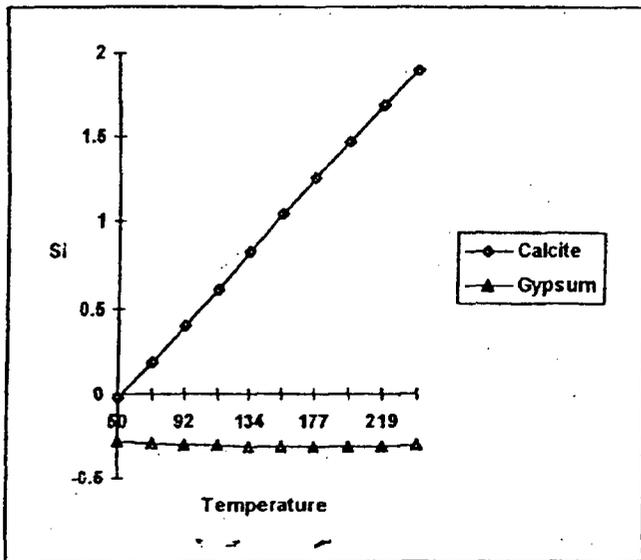
Calculation Method	Value
Known pH	6.87

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.38	210.20
Gypsum (Calcium Sulfate)	-0.30	
Hemihydrate (Calcium Sulfate)	-0.28	
Anhydrite (Calcium Sulfate)	-0.48	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

	Calcite	Gypsum
50	-0.02	-0.28
71	0.19	-0.29
92	0.40	-0.30
113	0.61	-0.30
134	0.83	-0.31
156	1.04	-0.31
177	1.25	-0.31
198	1.46	-0.31
219	1.68	-0.31
240	1.89	-0.30

API # 30-025-01035
 Bagley Field
 Devonian Formation
 within 1 mile of
 State C A/C 1 #4 SWD



Champion
Technologies, Inc.

Committed To Improvement

Customer: Samson Resources Company

Attention: Floyd Steed

CC:

Water Analysis Report

12/10/01

Address: 4419 Harlowe
Midland, TX 79703

Lease: State 8D
Formation:

Target Name: State West Water Well

Sample Point: State West Water Well

Sample Date: 11/25/2001

Test Date: 12/06/2001

Water Analysis (mg/L)

Calcium	160
Magnesium	170
Barium	
Strontium	
Sodium(calc.)	909
Bicarbonate Alkalinity	
Sulfate	245
Chloride	2000

Appended Data (mg/L)

CO2	
H2S	
Iron	4

Physical Properties

Ionic Strength(calc.)	0.08
pH(calc.)	
Temperature(°F)	90
Pressure(psia)	50
Density	

Additional Data

Specific Gravity	
Total Dissolved Solids(Mg/L)	
Total Hardness(CaCO3 Eq Mg/L)	1097

Dew Point

Lead	
Zinc	

Calcite Calculation Information

Calculation Method	Value
CO2 in Brine(mg/L)	

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)		
Gypsum (Calcium Sulfate)	-1.86	
Hemihydrate (Calcium Sulfate)	-1.66	
Anhydrite (Calcium Sulfate)	-2.11	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

NOTATION: Within 1 Mile of
State C A/C 1 #4 SWD



Champion
Technologies, Inc.

Committed To Improvement

Customer: Samson Resources Company
Attention: Floyd Steed

Water Analysis Report

12/10/01

Address: 4419 Harlowe
Midland, TX 79703

Lease: State BD
Formation:

CC:

Target Name: State East Water Well

Sample Point: State East Water Well

Sample Date: 11/25/2001

Test Date: 12/06/2001

Water Analysis (mg/L)

Calcium	160
Magnesium	170
Barium	
Strontium	
Sodium(calc.)	2185
Bicarbonate Alkalinity	
Sulfate	200
Chloride	4000

Appended Data (mg/L)

CO2	
H2S	
Iron	3

Physical Properties

Ionic Strength(calc.)	0.13
pH(calc.)	
Temperature(°F)	90
Pressure(psia)	50
Density	

Additional Data

Specific Gravity		Dew Point
Total Dissolved Solids(Mg/L)		Lead
Total Hardness(CaCO3 Eq Mg/L)	1097	Zinc

Calcite Calculation Information

Calculation Method	Value
CO2 in Brine(mg/L)	

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)		
Gypsum (Calcium Sulfate)	-1.98	
Hemihydrate (Calcium Sulfate)	-1.80	
Anhydrite (Calcium Sulfate)	-2.23	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

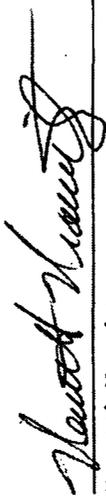
NOTATION: Within 1 Mile of
State C A/C 1 #4 SWD

AFFIRMATIVE STATEMENT
Geologic Data

Reference: Samson Resources Company
Application for Authorization to Inject (Expired Permit Order SWD-277)
State C A/C 1 #4 SWD
Lea County, NM

	<u>Formation</u>	<u>Lithologic Detail</u>	<u>Top</u>	<u>Bottom</u>
Injection Interval:	Devonian	Lime	10,920'	11,275'
Underground Sources of Drinking Water	Santa Rosa Dewey Lake		Unknown Unknown	Above 1700' Above 1700'

I have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.


Kenneth Krawietz

Samson Resources Company
Manager, Division Operations

6/8/11
Date



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

SENT VIA FEDERAL EXPRESS

August 30, 2011

RECEIVED OGD
2011 SEP - 1 A 11:45

State of New Mexico
Energy, Minerals and Natural Resources Department
Attention: Mr. William V. Jones
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Reference: Samson Resources Company
Application for Authorization to Inject
State C A/C 1 #4 SWD
Lea County, NM

Dear Mr. Jones:

As required by the State of New Mexico, Oil Conservation Division, please find enclosed an original and one photocopy of the Legal Notice Publication and Affidavit of same, regarding the above referenced *Application for Authorization to Inject* for the State C A/C 1 #4 SWD in Lea County, New Mexico.

Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com, or me at (918) 591-1388, if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician

DB:

Enclosures

Cc: State of New Mexico
Energy, Minerals and Natural Resources Department
District 1
1625 N. French Drive
Hobbs, New Mexico

Engineering- File

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

OLD

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising Director of THE LOVINGTON LEADER, a thrice a week newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

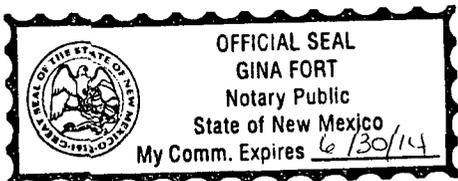
That the notice which is hereto attached, entitled Legal Notice was published in a regular and entire issue of THE LOVINGTON LEADER and not in any supplement thereof, for one (1) day(s), beginning with the issue of June 4, 2011 and ending with the issue of June 4, 2011.

And that the cost of publishing said notice is the sum of \$ 38.38 which sum has been (Paid) as Court Costs.

Joyce Clemens
Joyce Clemens, Advertising Manager
Subscribed and sworn to before me this 6th day of June, 2011.

Gina Fort
Gina Fort
Notary Public, Lea County, New Mexico
My Commission Expires June 30, 2014

**LEGAL NOTICE
NOTICE OF APPLICATION
FOR PRODUCED SALT WATER INJECTION WELL PERMIT**
Samson Resources Company, Two West Second Street, Tulsa, OK 74103, contact Kenneth Krawietz (432) 686-6337, is applying to the New Mexico Oil and Gas Conservation Division for an injection well permit, which injects produced salt water into a formation not productive of oil and gas.
The applicant proposes to set the permit packer at a depth of 10,750 feet of the State C/A/C 1 Lease, Well Number 4 and to inject produced salt water into the Devonian formation. The injection well is located approximately 15 miles West of Tatum County on US 380, latitude: 33.30238; longitude: -103.59109, Unit M, Section 2, Township 12S, Range 33E, in Bagley Field, Lea County, New Mexico. The produced salt water will be injected into strata in the subsurface depth interval from 10,920 to 11,275 feet, maximum injection volume rate per day 7,000 and maximum injection pressure rate not to exceed 2204 psi.
Interested parties must file objections or request for hearing with the New Mexico Oil and Gas Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days of application.
Published in the Lovington Leader June 4, 2011.



Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

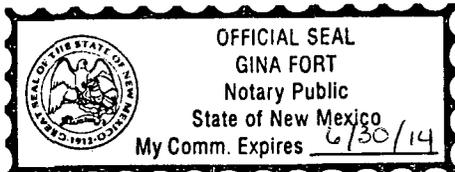
Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising Director of THE LOVINGTON LEADER, a thrice a week newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Legal Notice was published in a regular and entire issue of THE LOVINGTON LEADER and not in any supplement thereof, for one (1) day(s), beginning with the issue of August 27, 2011 and ending with the issue of August 27, 2011.

And that the cost of publishing said notice is the sum of \$ 49.15 which sum has been (Paid) as Court Costs.

Joyce Clemens
Joyce Clemens, Advertising Manager
Subscribed and sworn to before me this 29th day of August, 2011.

Gina Fort
Gina Fort
Notary Public, Lea County, New Mexico
My Commission Expires June 30, 2014



US 380, latitude: 33.30238; longitude: -103.59109, Unit M, Section 2, Township 12S, Range 33E, in Bagley Field, Lea County, New Mexico. The produced

**LEGAL NOTICE
NOTICE OF APPLICATION FOR PRODUCED
SALT WATER INJECTION WELL PERMIT -
CORRECTION**

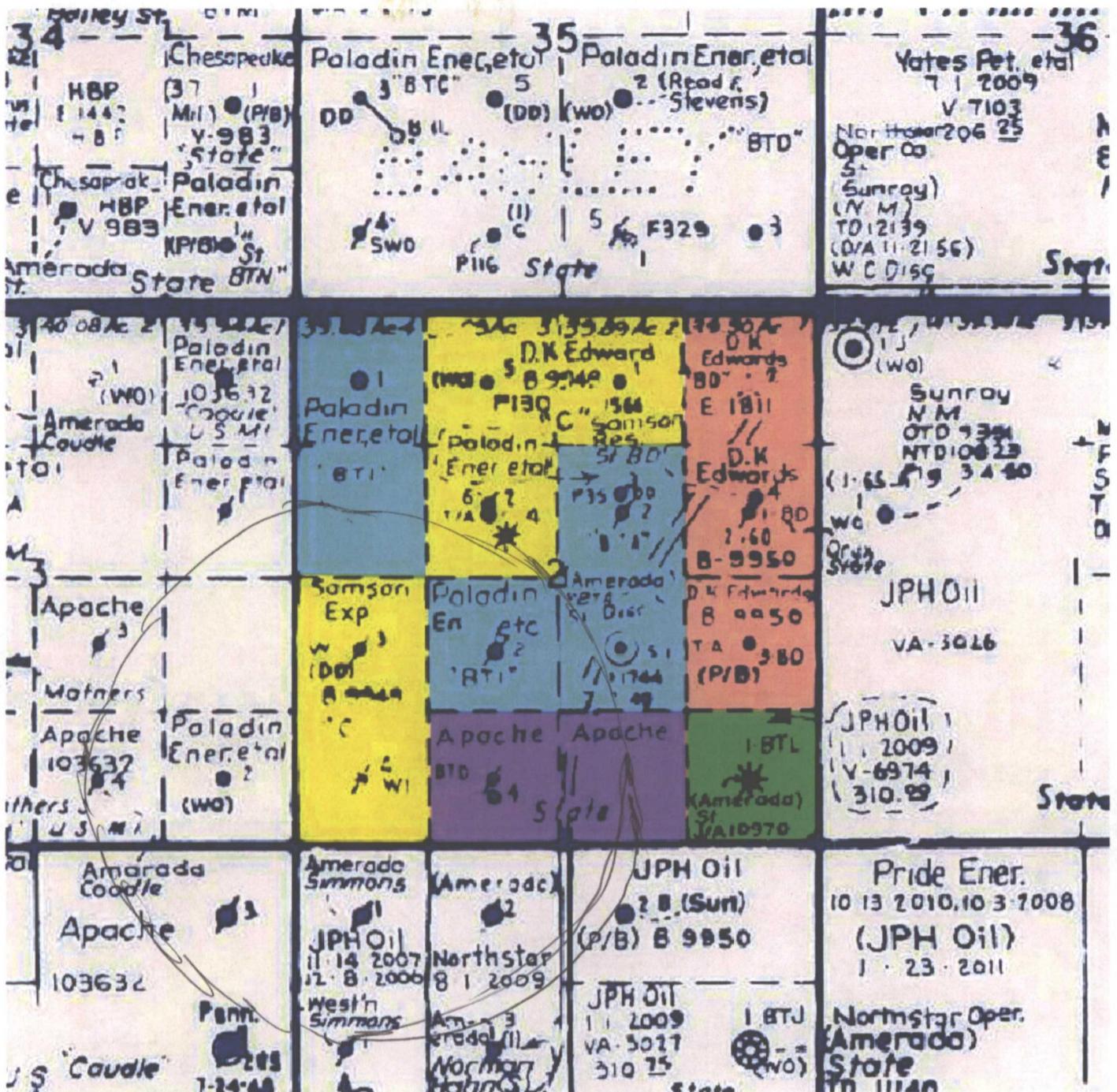
Samson Resources Company, Two West Second Street, Tulsa, OK 74103, contact Kenneth Krawietz (432) 686-6337, is applying to the New Mexico Oil and Gas Conservation Division for an injection well permit, which injects produced salt water down structure of a formation productive of oil and gas. This is an existing Devonian SWD well. The permit is being revised for packer setting depth and injection interval. The applicant proposes to set the permit packer at a depth of 10,752 feet of the State C/A/C 1 Lease, Well Number 4 and to inject produced salt water into the Devonian formation. The injection well is located approximately 15 miles West of Tatum County on

salt water will be injected into strata in the subsurface depth interval from 10,852 to 11,275 feet, maximum injection volume rate per day 7,000 and maximum injection pressure rate not to exceed 1000 psi.

The packer setting depth is 10,752', which is in the Mississippian formation. The Mississippian is tight and not productive. The Devonian will take water on a vacuum, so injected water will be entering the Devonian formation. The Devonian formation and Penn formation are isolated from each other.

Interested parties must file objections or request for hearing with the New Mexico Oil and Gas Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days of application.

Published in the Lovington Leader August 27, 2011.



Sun/Oryx Trade - Bagley Area - Lea Co. NM

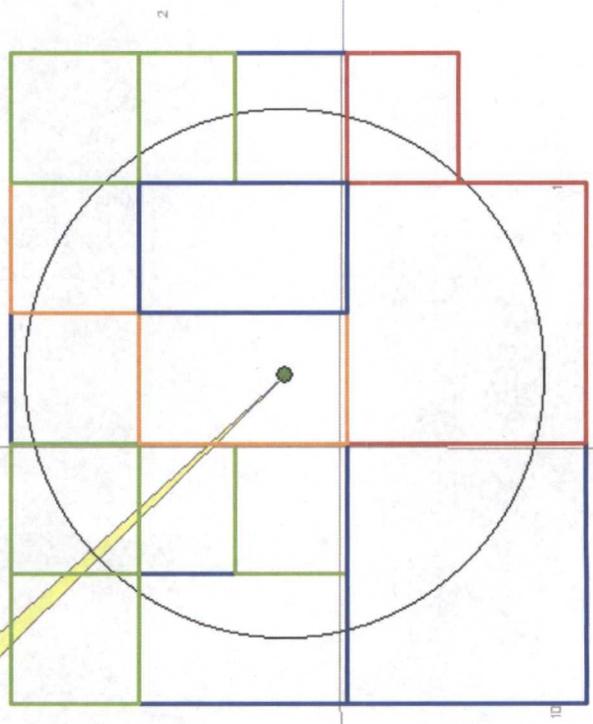
- State BD Lease & State Leases NM B-1811 & B-9950 - Samson 100% GWI; B-1811 (81.25%); B-9950 (87.5%) - All Depths
- State C A/C No. 1 Lease & State NM B-9949 - Samson 100% GWI; B-9949 (87.5%) - All Depths And Includes Bagley SWD & State C A/C No. 1 SWD
- State NM B-9950 - Paladin Energy Corporation 50% GWI & 42.3828125% NRI; Cordillera Energy Partners, L.L.C. 33.3333% GWI & 28.2552083% NRI; Lynx Production Co., Inc. 16.6667% GWI & 14.1276042% NRI As To All Depths; No Title Opinion On W/2 NW/4 Or NE/4 SW/4 of Section 2
- State NM B-10612 Lease - Apache Corporation 100% GWI & 87.5% NRI; All Depths - No Title Opinion On SE/4 SW/4 of Section 2

Rubicon

Yates Pet

- Apache Corp. 26
- Paladin Energy Corp. et al
- Samson Resources Co.
- Shaw Int. et al
(see attached list) 36

Samson Resources Co.
 State C AC 1 #4
 660 FSL & 660 FWL
 Section 2, T12S, R33E
 Lea Co., NM



Notes: Circle represents 1/2 mile radius from wellbore,
 Paladin is operator of area outlined in green



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

AFFIDAVIT OF MAILING

Reference: API #30-025-01037
Application for Authorization to Inject
(Expired Permit SWD-277),
State C A/C 1 #4 in Sec. 2-T12S-R33E
Lea County, NM

I, the undersigned (Debbie Bedingfield), do hereby declare that on June 9, 2011, I posted a true copy of the above referenced application in Certified U.S. Mail in sealed envelopes addressed to the following, postage pre-paid:

State of New Mexico (Surface Owner)
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, NM 87504-1148

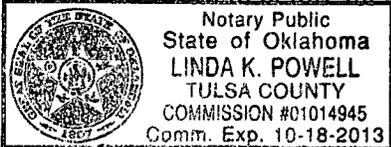
Hess Corporation (Leasehold Operator within ½ Mile Radius)
P.O. Box 840
Seminole, TX 79360

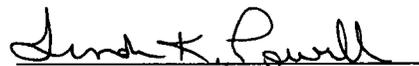
Northstar Operating Company (Leasehold Operator within ½ Mile Radius)
P.O. Box 10708
Midland, TX 79702

Paladin Energy Corporation (Leasehold Operator within ½ Mile Radius)
10290 Monroe Drive Suite 301
Dallas, Texas 75229


Debbie Bedingfield
Environmental & Safety Technician

Subscribed and sworn to before me this the 9th day of June of 2011.




Notary Public

My commission expires 10/18/2013



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5632 6839

SENDERS RECORD

June 8, 2011

State of New Mexico (Surface Owner)
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, NM 87504-1148

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108 (Expired Permit Order SWD-277)

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 Application for Authorization to Inject, allowing a packer setting depth of 10,750' and injection intervals from 10,920 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

Mississippian	-	Top of Formation 10,365' (not productive in field)
Devonian	-	Top of Formation 10,920'
Penn	-	Top of Formation 8,672'

The Mississippian formation is tight and not productive of oil and gas. The Devonian will take water on a vacuum; therefore, the injected water will enter the permitted zone. The Devonian formation and Penn formation are isolated from each other.

Interested parties must file objections or requests for hearing with the Oil and Gas Conservation Division, at 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days from the date this application was mailed.

Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON


Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

June 8, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5632 6815

SENDER'S RECORD

Hess Corporation (Leasehold Operator within ½ Mile Radius)
P.O. Box 840
Seminole, TX 79360

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108 (Expired Permit Order SWD-277)

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 Application for Authorization to Inject, allowing a packer setting depth of 10,750' and injection intervals from 10,920 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

Mississippian	–	Top of Formation 10,365' (not productive in field)
Devonian	-	Top of Formation 10,920'
Penn	-	Top of Formation 8,672'

The Mississippian formation is tight and not productive of oil and gas. The Devonian will take water on a vacuum; therefore, the injected water will enter the permitted zone. The Devonian formation and Penn formation are isolated from each other.

Interested parties must file objections or requests for hearing with the Oil and Gas Conservation Division, at 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days from the date this application was mailed.

Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

June 8, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5632 6822

SENDERS RECORD

Northstar Operating Company (Leasehold Operator within ½ Mile Radius)
P.O. Box 10708
Midland, TX 79702

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108 (Expired Permit Order SWD-277)

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 Application for Authorization to Inject, allowing a packer setting depth of 10,750' and injection intervals from 10,920 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

Mississippian	-	Top of Formation 10,365' (not productive in field)
Devonian	-	Top of Formation 10,920'
Penn	-	Top of Formation 8,672'

The Mississippian formation is tight and not productive of oil and gas. The Devonian will take water on a vacuum; therefore, the injected water will enter the permitted zone. The Devonian formation and Penn formation are isolated from each other.

Interested parties must file objections or requests for hearing with the Oil and Gas Conservation Division, at 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days from the date this application was mailed.

Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5632 5825

SENDERS RECORD

June 8, 2011

Paladin Energy Corporation (Leasehold Operator within ½ Mile Radius)
10290 Monroe Drive Suite 301
Dallas, Texas 75229

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108 (Expired Permit Order SWD-277)

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 Application for Authorization to Inject, allowing a packer setting depth of 10,750' and injection intervals from 10,920 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Devonian	-	Top of Formation 10,920'
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Interested parties must file objections or requests for hearing with the Oil and Gas Conservation Division, at 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days from the date this application was mailed.

Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

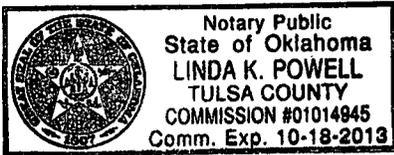
AFFIDAVIT OF MAILING

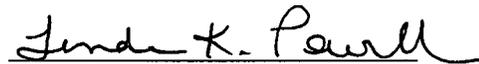
Reference: API #30-025-01037
Application for Authorization to Inject
State C A/C 1 #4 SWD in Sec. 2-T12S-R33E
Lea County, NM

I, the undersigned (Debbie Bedingfield), do hereby declare that on August 25, 2011, I posted a true copy of the above referenced application in Certified U.S. Mail in sealed envelopes, postage pre-paid, to the **Operators, Working and Mineral Interest Owners and Surface Owner, per the attached Distribution List.**


Debbie Bedingfield
Environmental & Safety Technician

Subscribed and sworn to before me this the 25th day of August of 2011.




Notary Public

My commission expires 10/18/2013

DISTRIBUTION LIST:

Offset Leasehold and Mineral Ownership **Offsetting Samson's State C AC1 Well, Section 2, Township 12 South, Range 33 East, NMPM Lea County, New Mexico**

Note: This report includes an examination of those instruments as indexed in the tract books of Elliott & Waldron Title and Abstract Company and Caprock Title Midland LLC up to July 13, 2011 at 7:00 a.m. pertaining to records filed in Lea County, New Mexico.

Working & Mineral Interest Owner and Address

Township 12 South, Range 33 East, NMPM **Section 11: NW/4 and NW/4NE/4 Lea County, New Mexico**

Operator, Working and Mineral Interest Owners and Surface Owner

Shaw Interests, Inc.

Maner Shaw-President

310 West Wall Street, Suite 305

Midland, Texas 79701

Certified Article Number: 7160 3901 9848 5631 2306

Jimmy P. Hodge, dba JPH Oil Producers

P.O. Box 565

Lovington, New Mexico 88260

Certified Article Number: 7160 3901 9848 5631 2313

Ron Wallace, etux Ella

Route 1, Box 84

Lovington, New Mexico 88260

Certified Article Number: 7160 3901 9848 5631 2320

Fonay Oil & Gas, LLC

306 Jemez

Hobbs, New Mexico 88240

Certified Article Number: 7160 3901 9848 5631 2337

Donald R. Layton, etux Mary

3103 79th Street

Lubbock, Texas 79423

Certified Article Number: 7160 3901 9848 5631 2344

Northstar Operating Company

P.O. Box 10708

Midland, Texas 79702

Certified Article Number: 7160 3901 9848 5631 2351

Magic Dog Oil & Gas, Ltd.

P.O. Box 10708

Midland, Texas 79701

Certified Article Number: 7160 3901 9848 5631 2368

Skyline Energy, LLC
2301 Dublin Circle
Pearland, Texas 77561
Certified Article Number: 7160 3901 9848 5631 2375

Roy G. Barton, Jr. Trustee of the
Roy G. Barton, Sr. and Opal
Barton Revocable Trust, UTA
Dated 1-28-1982
1919 N. Turner
Hobbs, New Mexico 88240
Certified Article Number: 7160 3901 9848 5631 2382

June Danglade Speight
P.O. Box 1687
Lovington, New Mexico 88260
Certified Article Number: 7160 3901 9848 5631 2399

Michael Harrison Moore
C/O MHM Minerals, FLP
P.O. Box 51570
Midland, Texas 79710
Certified Article Number: 7160 3901 9848 5631 2405

Richard Lyons Moore
1150 N. Carroll Avenue
Southlake, Texas 76092
Certified Article Number: 7160 3901 9848 5631 2412

Richard Lyons Moore and Michael Harrison Moore
Co-Trustees of the Testamentary Trust created UWO
Stephen Scott Moore, deceased
1150 N. Carroll Avenue
Southlake, Texas 76092
Certified Article Number: 7160 3901 9848 5631 2429

Chisos LTD. (formerly known as
Bellwether Exploration Company)
670 Dona Ana Road, SW
Deming, New Mexico 88030
Certified Article Number: 7160 3901 9848 5631 2436

Norwest Bank Texas, Successor
Trustee of the J.E. Simmons
Trusts A-JSS & B-MJH & Beulah
H. Simmons Trusts A-JSS & B-MJH
P.O. Box 6000
San Antonio Texas 78286
Certified Article Number: 7160 3901 9848 5631 2443

Wells Fargo Bank Texas, N.A., Trustee for the B.H. Simmons
Testamentary Trust fbo JSS, the B.H. Simmons Testamentary Trust
fbo MJH, the J.E. Simmons Testamentary Trust fbo JSS, the J.E.
Simmons Testamentary Trust fbo MJH
P.O. Box 1959
Midland, Texas 79702
Certified Article Number: 7160 3901 9848 5631 2450

Wells Fargo Bank Texas, N.A., Trustee of the J.E. Simmons Trust
fbo Mary Jane Hand & the B.U. Simmons Trust fbo Mary Jane Hand
P.O. Box 1959
Midland, Texas 79702
Certified Article Number: 7160 3901 9848 5631 2467

Pure Energy Group, Inc.
700 North St. Mary's Street, Suite 1925
San Antonio, Texas 78205
Certified Article Number: 7160 3901 9848 5631 2474

Edge Petroleum Exploration Company
1301 Travis, Suite 2000
Houston, Texas 77002
Certified Article Number: 7160 3901 9848 5631 2481

Western Commerce Bank, Agent of the Kirby D. Schenck A-2, B,
and B-GST Trusts which are subject to that Minerals Management
Agreement recorded in B609 P491
P.O. Box 1627
Lovington, New Mexico 88260
Certified Article Number: 7160 3901 9848 5631 2498

Helm Energy, LLC
5251 DTC Parkway, Suite 425
Greenwood Village, Colorado 80111
Certified Article Number: 7160 3901 9848 5631 2504

Diane Tucker
1800 60th Avenue NE
Norman, Oklahoma 73026
Certified Article Number: 7160 3901 9848 5631 2115

Nancy Lange
2640 NW 26th Street
Oklahoma City, Oklahoma 73107
Certified Article Number: 7160 3901 9848 5631 1989

James Lee Chambers
2900 Ginger Drive
Norman, Oklahoma 73026
Certified Article Number: 7160 3901 9848 5631 1996

Kelley Leigh O'Brien
7815 South 95th East Avenue
Tulsa, Oklahoma 74133
Certified Article Number: 7160 3901 9848 5631 2009

Alden Obering O'Brien
P.O. Box 6655
Shreveport, Louisiana 71136
Certified Article Number: 7160 3901 9848 5631 2016

Paul F. O'Brien, III, Trustee fbo Karen Erin O'Brien
Under the Children of Alden Obering O'Brien Trust #2
P.O. Box 6655
Shreveport, Louisiana 71136
Certified Article Number: 7160 3901 9848 5631 2023

Ernest Obering O'Brien, Trustee fbo France Halley O'Brien
Under the Children of Alden Obering O'Brien Trust #2
P.O. Box 6655
Shreveport, Louisiana 71136
Certified Article Number: 7160 3901 9848 5631 2030

Ernest Obering O'Brien, Trustee fbo Mary Hannah O'Brien
Under the Children of Alden Obering O'Brien Trust #2
P.O. Box 6655
Shreveport, Louisiana 71136
Certified Article Number: 7160 3901 9848 5632 6587

Ernest Obering O'Brien, Trustee fbo Elle Obering O'Brien
Under the Children of Alden Obering O'Brien Trust #2
P.O. Box-6655
Shreveport, Louisiana 71136
Certified Article Number: 7160 3901 9848 5632 6594

Mineral Investment Corporation
3000 Wilcrest Drive, Suite 115
Houston, Texas 77042
Certified Article Number: 7160 3901 9848 5631 2047

Jack C. Cartwright
500 Palo Dura Drive
Midland, Texas 79707
Certified Article Number: 7160 3901 9848 5631 2054

Ross Roberts
1401 Douglas Avenue
Midland, Texas 79701
Certified Article Number: 7160 3901 9848 5631 2061

Charles E. Koch
P.O. Box 51867
Midland, Texas 79710
Certified Article Number: 7160 3901 9848 5631 2078

Ponderosa Royalty, LLC
Attn.: W.B. Robbins, III
P.O. Box 10428
Midland, Texas 79702
Certified Article Number: 7160 3901 9848 5631 2085

Etz Oil Properties Ltd
P.O. Box 73406
Phoenix, Arizona 85050
Certified Article Number: 7160 3901 9848 5631 2092

Susan Barkley Hale
P.O. Box 697
Bishop, Texas 78343
Certified Article Number: 7160 3901 9848 5631 2108

Carlsbad National Bank, Successor Trustee Of the Jean S. Sullivan
First Amended Revocable Trust
P.O. Box 1359
Carlsbad, New Mexico 88221
Certified Article Number: 7160 3901 9848 5631 2191

John A. Davis
2270 Santiago Road
Santa Barbara, California 93103
Certified Article Number: 7160 3901 9848 5631 2207

Charles H. Davis, Jr.
P.O. Box 906
Homer, Alaska 99603
Certified Article Number: 7160 3901 9848 5631 2214

Joel H. Davis
11851 E. Maplewood Avenue
Englewood, Colorado 80113
Certified Article Number: 7160 3901 9848 5631 2221

Owen W. McWhorter, Jr.
3019 21st Street
Lubbock, Texas 79410
Certified Article Number: 7160 3901 9848 5631 2238

Joe KirkPatrick Fulton
P.O. Box 16860
Lubbock, Texas 79490
Certified Article Number: 7160 3901 9848 5631 2245

Lavonne Priddy Baxter
3902 77th Street
Lubbock, Texas 79423
Certified Article Number: 7160 3901 9848 5631 2252

Quien Sabe Oil & Gas, LLC
1001 McKinney Street, Suite 2200
Houston, Texas 77002
Certified Article Number: 7160 3901 9848 5631 2269

Stadium 5, LLC
Joseph B. Obering
8117 Preston Road, Suite 520
Dallas, Texas 75225
Certified Article Number: 7160 3901 9848 5631 2276

Constance Cobb Keen
C/O McWhorter, Cobb & Johnson, LLC
P.O. Box 2547
Lubbock, Texas 79408
Certified Article Number: 7160 3901 9848 5631 2283

Marjorie Cone Kastman, Personal Representative of the
Estate of Fern Cone, deceased
P.O. Box 5930
Lubbock, Texas 79408
Certified Article Number: 7160 3901 9848 5631 2290

S.E. Cone, Jr.
P.O. Box 10321
Lubbock, Texas 79408
Certified Article Number: 7160 3901 9848 5631 1835

Kathleen Cone Keck
1801 Avenue of the Stars, Suite 430
Los Angeles, California 90067
Certified Article Number: 7160 3901 9848 5631 1842

Kathleen Cone Keck
628 San Lorenzo Street
Santa Monica, California 90402
Certified Article Number: 7160 3901 9848 5631 1859

David P. Frase, Trustee of the David P. Frase Trust of 2000 dated 3-20-2000
P.O. Box 493279
Redding, California 96049
Certified Article Number: 7160 3901 9848 5631 1866

American State Bank & Constance Cobb Keen
Co Trustees of the Camilla H. Cobb Trust
P.O. Box 1401
Lubbock, Texas 79408
Certified Article Number: 7160 3901 9848 5631 1873

Melinda Nolen, Trustee of the Family Trust B Created
Under the Nolen Family Trust dated 5-30-1997
5302 Beverly Drive
San Angelo, Texas 76904
Certified Article Number: 7160 3901 9848 5631 1880

Canyon Properties, LLC
Attn.: Jack Markham
1500 Broadway, Suite 1212
Lubbock, Texas 79401
Certified Article Number: 7160 3901 9848 5631 1897

Bill J. Markham & RoseMarie Markham, Co-Trustees of the
Bill J. Markham Estate Trust
2500 Woodside Drive #1405
Arlington, Texas 76016
Certified Article Number: 7160 3901 9848 5631 1903

C.B. Markham Estate Trust
C/O Donna Edwards, Trustee
2512 Metgar Road SW
Albuquerque, New Mexico 87105
Certified Article Number: 7160 3901 9848 5631 1910

Donald Marshal Markham & Ladonna Rieger Markham,
Trustees Of The Donald Marshal Markham
Family Trust, UTA dated 4-12-1995
P.O. Box 241
Center Point, Texas 78010
Certified Article Number: 7160 3901 9848 5631 1927

State of New Mexico (Surface Owner)
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, NM 87504-1148
Certified Article Number: 7160 3901 9848 5632 6730

Hess Corporation (Leasehold Operator within ½ Mile Radius)

P.O. Box 840

Seminole, TX 79360

Certified Article Number: 7160 3901 9848 5632 6723

Paladin Energy Corporation (Leasehold Operator within ½ Mile Radius)

10290 Monroe Drive Suite 301

Dallas, Texas 75229

Certified Article Number: 7160 3901 9848 5632 6716

Apache Corporation

303 Veterans Airpark Lane, Suite 3000

Midland, TX 79705

Certified Article Number: 7160 3901 9848 5632 6570



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2306
SENDERS RECORD

President, Maner Shaw
Shaw Interests, Inc.
310 West Wall Street, Suite 305
Midland, TX 79701

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

- Mississippian – Top of Formation 10,365' (not productive in field)
- Devonian - Top of Formation 10,920'
- Penn - Top of Formation 8,672'

The Mississippian formation is tight and not productive. The Devonian will take water on a vacuum; therefore, the injected water will be entering the Devonian formation. The Devonian formation and Penn formation are isolated from each other.

Interested parties must file objections or requests for hearing with the Oil and Gas Conservation Division, at 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days from the date this application was mailed.

Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2313

SENDERS RECORD

Jimmy Hodge
JPH Oil Producers
P.O. Box 565
Lovington, NM 88260

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2320

SENDERS RECORD

August 25, 2011

Ron Wallace, etux Ella
Route 1, Box 84
Lovington, NM 88260

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2337
SENDER'S RECORD

Fonay Oil & Gas, LLC
306 Jemez
Hobbs, NM 88240

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2344
SENDER'S RECORD

Donald R. Layton, etux Mary
3103 79th Street
Lubbock, TX 79423

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

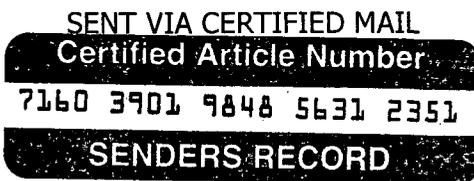
SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011



Northstar Operating Company
P.O. Box 10708
Midland, TX 79702

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2368

SENDERS RECORD

Magic Dog Oil & Gas, Ltd.
P.O. Box 10708
Midland, TX 79701

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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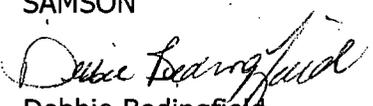
Interested parties must file objections or requests for hearing with the Oil and Gas Conservation Division, at 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days from the date this application was mailed.

Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON


Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2375
SENDERS RECORD

Skyline Energy, LLC
2301 Dublin Circle
Pearland, TX 77561

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
 Two West Second Street
 Tulsa, Oklahoma 74103-3103
 USA
 918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number
 7160 3901 9848 5631 2382
SENDERS RECORD

Roy G. Barton, Jr. Trustee of the
 Roy G. Barton, Sr. and Opal
 Barton Revocable Trust, UTA Dated 1-28- 1982
 1919 N. Turner
 Hobbs, NM 88240

Reference: Samson Resources Company
 State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
 Environmental & Safety Technician
 DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2399
SENDERS RECORD

June Danglade Speight
P.O. Box 1687
Lovington, NM 88260

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2405
SENDERS RECORD

Michael Harrison Moore
C/O MHM Minerals, FLP
P.O. Box 51570
Midland, TX 79710

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2412

SENDERS RECORD

Richard Lyons Moore
1150 N. Carroll Avenue
Southlake, TX 76092

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2429

SENDERS RECORD

Richard Lyons Moore and Michael Harrison Moore
Co-Trustees of the Testamentary Trust Created UWO
Stephen Scott Moore, deceased
1150 N. Carroll Avenue
Southlake, TX 76092

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2436

SENDERS RECORD

Chisos LTD. (Formerly Known as
Bellwether Exploration Company)
670 Dona Ana Road, SW
Deming, NM 88030

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
 Two West Second Street
 Tulsa, Oklahoma 74103-3103
 USA
 918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2443

SENDERS RECORD

Northwest Bank Texas, Successor
 Trustee of the J.E. Simmons
 Trusts A-JSS & B-MJH & Beulah H. Simmons Trusts A-JSS & B-MJH
 P.O. Box 6000
 San Antonio, TX 78286

Reference: Samson Resources Company
 State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
 Environmental & Safety Technician
 DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2450
SENDERS RECORD

Wells Fargo Bank Texas, N.A., Trustee for the B.H. Simmons Testamentary Trust fbo JSS, the B.H. Simmons Testamentary Trust fbo MJH, the J.E. Simmons Testamentary Trust fbo JSS, the J.E. Simmons Testamentary Trust fbo MJH
P.O. Box 1959
Midland, TX 79702

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

Mississippian	-	Top of Formation 10,365' (not productive in field)
Devonian	-	Top of Formation 10,920'
Penn	-	Top of Formation 8,672'

The Mississippian formation is tight and not productive. The Devonian will take water on a vacuum; therefore, the injected water will be entering the Devonian formation. The Devonian formation and Penn formation are isolated from each other.

Interested parties must file objections or requests for hearing with the Oil and Gas Conservation Division, at 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days from the date this application was mailed.

Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number

7160 3901 9848 5631 2467

SENDERS RECORD

Wells Fargo Bank Texas, N.A., Trustee of the J.E. Simmons Trust
fbo Mary Jane Hand & the B.U. Simmons Trust fbo Mary Jane Hand
P.O. Box 1959
Midland, TX 79702

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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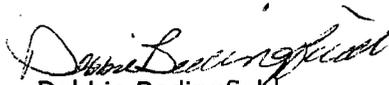
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Thank you.

Sincerely,

SAMSON


Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2474

SENDER'S RECORD

Pure Energy Group, Inc.
700 North St. Mary's Street, Suite 1925
San Antonio, TX 78205

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2481

SENDERS RECORD

Edge Petroleum Exploration Company
1301 Travis, Suite 2000
Houston, TX 77002

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2498
SENDERS RECORD

Western Commerce Bank, Agent of the Kirby D. Schenck A-2, B, and B-GST Trusts which are subject to that Minerals Management Agreement recorded in B609 P491
P.O. Box 1627
Lovington, NM 88260

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2504

SENDERS RECORD

Helm Energy, LLC
5251 DTC Parkway, Suite 425
Greenwood Village, CO 80111

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

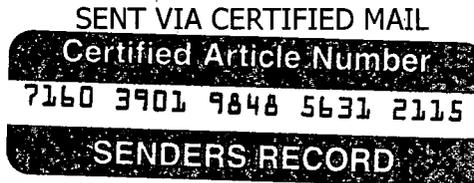
SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011



Diane Tucker
1800 60th Avenue NE
Norman, OK 73026

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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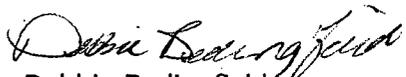
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Thank you.

Sincerely,

SAMSON


Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3701 9848 5631 1989

SENDERS RECORD

Nancy Lange
2640 NW 26th Street
Oklahoma City, OK 73107

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON


Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 1996

SENDER'S RECORD

James Lee Chambers
2900 Ginger Drive
Norman, OK 73026

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON


Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2009

SENDERS RECORD

Kelley Leigh O'Brien
7815 South 95th East Avenue
Tulsa, OK 74133

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2016

SENDERS RECORD

Alden Obering O'Brien
P.O. Box 6655
Shreveport, LA 71136

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2023
SENDERS RECORD

Paul F. O'Brien, III, Trustee fbo Karen Erin O'Brien
Under the Children of Alden Obering O'Brien Trust #2
P.O. Box 6655
Shreveport, LA 71136

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2030

SENDERS RECORD

Ernest Obering O'Brien, Trustee fbo France Halley O'Brien
Under the Children of Alden Obering O'Brien Trust #2
P.O. Box 6655
Shreveport, LA 71136

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5632 6587

SENDERS RECORD

Ernest Obering O'Brien, Trustee fbo Mary Hannah O'Brien
Under the Children of Alden Obering O'Brien Trust #2
P.O. Box 6655
Shreveport, LA 71136

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5632 6594

SENDERS RECORD

August 25, 2011

Ernest Obering O'Brien, Trustee fbo Elle Obering O'Brien
Under the Children of Alden Obering O'Brien Trust #2
P.O. Box 6655
Shreveport, LA 71136

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

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SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2047
SENDERS RECORD

Mineral Investment Corporation
3000 Wilcrest Drive, Suite 115
Houston, TX 77042

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2054

SENDERS RECORD

August 25, 2011

Jack C. Cartwright
500 Palo Dura Drive
Midland, TX 79707

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Samson Plaza
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USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2061

SENDERS RECORD

Ross Roberts
1401 Douglas Avenue
Midland, TX 79701

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

Mississippian	-	Top of Formation 10,365' (not productive in field)
Devonian	-	Top of Formation 10,920'
Penn	-	Top of Formation 8,672'

The Mississippian formation is tight and not productive. The Devonian will take water on a vacuum; therefore, the injected water will be entering the Devonian formation. The Devonian formation and Penn formation are isolated from each other.

Interested parties must file objections or requests for hearing with the Oil and Gas Conservation Division, at 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days from the date this application was mailed.

Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2078

SENDERS RECORD

Charles E. Koch
P.O. Box 51867
Midland, TX 79710

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

SAMSON


Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2085

SENDERS RECORD

W.B. Robbins, III
Ponderosa Royalty, LLC
P.O. Box 10428
Midland, TX 79702

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

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Debbie Bedingfield
Environmental & Safety Technician
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Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2092

SENDERS RECORD

Etz Oil Properties, Ltd.
P.O. Box 73406
Phoenix, AR 85050

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2108
SENDERS RECORD

Susan Barkley Hale
P.O. Box 697
Bishop, TX 78343

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

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Environmental & Safety Technician
DB:



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USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2191
SENDERS RECORD

Carlsbad National Bank, Successor Trustee of the Jean S. Sullivan
First Amended Revocable Trust
P.O. Box 1359
Carlsbad, NM 88221

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

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Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2207
SENDERS RECORD

John A. Davis
2270 Santiago Road
Santa Barbara, CA 93103

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON


Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2214

SENDERS RECORD

Charles H. Davis, Jr.
P.O. Box 906
Homer, Alaska 99603

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

SAMSON


Debbie Bedingfield
Environmental & Safety Technician
DB:



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Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2221

SENDERS RECORD

Joel H. Davis
11851 E. Maplewood Avenue
Englewood, CO 80113

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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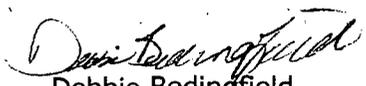
Interested parties must file objections or requests for hearing with the Oil and Gas Conservation Division, at 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days from the date this application was mailed.

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Thank you.

Sincerely,

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Environmental & Safety Technician
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Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2238

SENDERS RECORD

Owen W. McWhorter, Jr.
3019 21st Street
Lubbock, TX 79410

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

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Debbie Bedingfield
Environmental & Safety Technician
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Samson Plaza
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Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2245

SENDERS RECORD

Joe KirkPatrick Fulton
P.O. Box 16860
Lubbock, TX 79490

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2252

SENDERS RECORD

Lavonne Priddy Baxter
3902 77th Street
Lubbock, TX 79423

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Environmental & Safety Technician
DB:



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Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2269
SENDERS RECORD

Quien Sabe Oil & Gas, LLC
1001 McKinney Street, Suite 2200
Houston, TX 77002

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

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Environmental & Safety Technician
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Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 2276
SENDERS RECORD

Joseph B. Obering
Stadium 5, LLC
8117 Preston Road, Suite 520
Dallas, TX 75225

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

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Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2283

SENDERS RECORD

Constance Cobb Keen
C/O McWhorter, Cobb & Johnson, LLC
P.O. Box 2547
Lubbock, TX 79408

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 2290

SENDERS RECORD

Marjorie Cone Kastman
Personal Representative of the Estate of Fern Cone, deceased
P.O. Box 5930
Lubbock, TX 79408

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 1835

SENDERS RECORD

S.E. Cone, Jr.
P.O. Box 10321
Lubbock, TX 79408

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 1842

SENDERS RECORD

Kathleen Cone Keck
1801 Avenue of the Stars, Suite 430
Los Angeles, CA 90067

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Interested parties must file objections or requests for hearing with the Oil and Gas Conservation Division, at 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days from the date this application was mailed.

Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 1859

SENDERS RECORD

Kathleen Cone Keck
628 San Lorenzo Street
Santa Monica, CA 90402

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 1866

SENDERS RECORD

David P. Frase
Trustee of the David P. Frase Trust of 2000 dated 3-20-2000
P.O. Box 493279
Redding, CA 96049

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number
7160 3901 9848 5631 1873
SENDERS RECORD

American State Bank & Constance Cobb Keen
Co. Trustees of the Camilla H. Cobb Trust
P.O. Box 1401
Lubbock, TX 79408

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 1880

SENDERS RECORD

Melinda Nolen
Trustee of the Family Trust B Created
Under the Nolen Family Trust dated 5-30-1997
5302 Beverly Drive
San Angelo, TX 76904

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 1897

SENDERS RECORD

Jack Markham
Canyon Properties, LLC
1500 Broadway, Suite 1212
Lubbock, TX 79401

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Please do not hesitate to contact Kenneth Krawietz, Manager, Division Operations at (432) 686-6337 or kkrawietz@samson.com if additional information is required.

Thank you.

Sincerely,

SAMSON


Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 1903

SENDERS RECORD

Bill J. & Rose Marie Markham
Co-Trustees of the Bill J. Markham Estate Trust
2500 Woodside Drive #1405
Arlington, TX 76016

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician

DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 1910

SENDERS RECORD

C.B. Markham
Estate Trust C/O Donna Edwards, Trustee
2512 Metgar Road SW
Albuquerque, NM 87105

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5631 1927

SENDERS RECORD

Donald Marshal & Ladonna Rieger Markham
Trustees of the Donald Marshal Markham Family Trust, UTA dated 4-12-1995
P.O. Box 241
Center Point, TX 78010

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5632 6730

SENDER'S RECORD

August 25, 2011

State of New Mexico (Surface Owner)
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, NM 87504-1148

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5632 6723

SENDERS RECORD

Hess Corporation (Leasehold Operator within ½ Mile Radius)
P.O. Box 840
Seminole, TX 79360

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements for an authorization to inject, please find enclosed a copy of the Form C-108 *Application for Authorization to Inject*, allowing a packer setting depth of 10,752' and injection intervals from 10,852 feet to 11,275 feet. The formations underlying and overlying the packer, are as follows:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 25, 2011

SENT VIA CERTIFIED MAIL
Certified Article Number

7160 3901 9848 5632 6716

SENDERS RECORD

Paladin Energy Corporation (Leasehold Operator within ½ Mile Radius)
10290 Monroe Drive Suite 301
Dallas, Texas 75229

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

SAMSON


Debbie Bedingfield
Environmental & Safety Technician
DB:



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

SENT VIA CERTIFIED MAIL

Certified Article Number

7160 3901 9848 5632 6570

SENDERS RECORD

August 25, 2011

Apache Corporation (Leasehold Operator within ½ Mile Radius)
303 Veterans Airpark Lane, Suite 3000
Midland, Texas 79705

Reference: Samson Resources Company
State C A/C 1 #4 SWD – Lea County, NM
Application for Authorization to Inject Form C-108

Gentlemen:

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Thank you.

Sincerely,

SAMSON

Debbie Bedingfield
Environmental & Safety Technician
DB:

Jones, William V., EMNRD

From: Sanchez, Daniel J., EMNRD
Sent: Thursday, September 01, 2011 1:43 PM
To: Gina Saddler
Cc: Jones, William V., EMNRD; Swazo, Sonny, EMNRD
Subject: RE: State C A/C 1 Well No. 4 30-025-01037

Gina,

The letter you are asking for is drafted by our legal department, in this case Sonny Swazo. He is currently on vacation but will be back on the 7th. I don't see a problem with issuing the letter and having Will complete the review of your application. I will call you on the 7th and let you know what to expect. Have a good weekend.

Daniel Sanchez
OCD Compliance & Enforcement Manager
(505)476-3493

From: Gina Saddler [<mailto:gsaddler@samson.com>]
Sent: Thursday, September 01, 2011 1:21 PM
To: Sanchez, Daniel J., EMNRD
Cc: Kenneth Krawietz
Subject: State C A/C 1 Well No. 4 30-025-01037

Mr Sanchez,

We are respectfully requesting a Catch-22 Letter from you regarding the above referenced well. We were told by Mr. Jones to please request this from you as we are trying to bring this well into compliance. Please let me know if you need any further information. Thank you.

Gina L. Saddler
Samson
Engineer Tech/Permian Division
200 N Loraine Ste 1010, Midland, TX 79701
432-686-6310
Gsaddler@samson.com

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Tuesday, August 30, 2011 5:40 PM
To: Kenneth Krawietz
Cc: Ezeanyim, Richard, EMNRD; Brown, Maxey G, EMNRD; Sanchez, Daniel J., EMNRD
Subject: Disposal application from Samson Resources Company: State C A/C 1 Well No. 4 30-025-01037 Devonian

Hello Kenneth and Debbie:
Just received and reviewed your application,

The diagrams on the 4 Area of Review Plugged wells are difficult to see the casing placement and cement on backside of casing strings. Would you please look at those and just hand draw in that data and resend? I am sure all is OK but this would help keep our files complete.

Jones, William V., EMNRD

From: Kenneth Krawietz [KKRAWIETZ@samson.com]
Sent: Thursday, September 01, 2011 12:48 PM
To: Jones, William V., EMNRD
Subject: RE: Disposal application from Samson Resources Company: State C A/C 1 Well No. 4 30-025-01037 Devonian

Good afternoon. I bet you are very busy these days so I understand completely. Debbie Beddingfield will respond to the questions and wellbore sketches soon. Thanks for all your support and help.

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Thursday, September 01, 2011 12:26 PM
To: Kenneth Krawietz
Subject: RE: Disposal application from Samson Resources Company: State C A/C 1 Well No. 4 30-025-01037 Devonian

Hello Kenneth,
I had forgotten about our earlier correspondence.

As far as the questions I sent yesterday:
I have a newspaper notice already.
I also have your writeup on the Devonian.

(Too many pending permit applications floating around here.)

Will Jones
New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

From: Jones, William V., EMNRD
Sent: Tuesday, August 30, 2011 4:40 PM
To: Kenneth Krawietz
Cc: Ezeanyim, Richard, EMNRD; Brown, Maxey G, EMNRD; Sanchez, Daniel J., EMNRD
Subject: Disposal application from Samson Resources Company: State C A/C 1 Well No. 4 30-025-01037 Devonian

Hello Kenneth and Debbie:
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The diagrams on the 4 Area of Review Plugged wells are difficult to see the casing placement and cement on backside of casing strings. Would you please look at those and just hand draw in that data and resend? I am sure all is OK but this would help keep our files complete.

You show one well producing from the Devonian in the Area of Review – and operated by Paladin. Would you talk about what possible effect could be on that well's production of disposal into your well? Have you talked to Paladin about this?

Notices were sent to a LOT of parties, even though the colored map of the AOR shows Shaw, Apache, Paladin, and Samson as the operators or lessees in this area. If there are leases for Miss/Devonian minerals, then you only have to send notices to those companies holding those leases. The assumption is that the lease agreement handles the relationship between the lessor and the lessee to protect them. Notice was also sent to Hess, but I did not see Hess on

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Tuesday, August 30, 2011 4:40 PM
To: Kenneth Krawietz
Cc: Ezeanyim, Richard, EMNRD; Brown, Maxey G, EMNRD; Sanchez, Daniel J., EMNRD
Subject: Disposal application from Samson Resources Company: State C A/C 1 Well No. 4
30-025-01037 Devonian

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Notices were sent to a LOT of parties, even though the colored map of the AOR shows Shaw, Apache, Paladin, and Samson as the operators or lessees in this area. If there are leases for Miss/Devonian minerals, then you only have to send notices to those companies holding those leases. The assumption is that the lease agreement handles the relationship between the lessor and the lessee to protect them. Notice was also sent to Hess, but I did not see Hess on the colored tract AOR map. If there is tracts of land that are unleased, then definitely the mineral owners would need notice.

Send a copy of the newspaper notice, when it actually runs – if one was in this application, I didn't see it.

The database shows there are too many inactive wells for Samson by one, but this well is one of the inactive ones, so without this well, Rule 5.9 would be OK.

Would you please ask Daniel Sanchez for a Catch-22 letter exception so we can release this permit after the 15 day suspense period?

Thank You,

William V. Jones, P.E.
Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462



Jones, William V., EMNRD

From: Kenneth Krawietz [KKRAWIETZ@samson.com]
Sent: Monday, July 18, 2011 8:00 AM
To: Jones, William V., EMNRD
Subject: RE: Disposal application from Samson Resources Company: State C AC1 #4 30-025-01037 Miss-Dev open hole 10800 to 11275

Thank you. We will gather up this information. This well is down structure and all water disposed is Devonian produced water from nearby wells. Mississippian is so tight that it will not take water. Devonian takes it on a vacuum, all we see is some friction pressure. But we will get all of this info to you. thanks. hope all is well.

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Saturday, July 16, 2011 8:10 PM
To: Kenneth Krawietz
Cc: Ezeanyim, Richard, EMNRD; Gonzales, Elidio L, EMNRD; Kautz, Paul, EMNRD
Subject: Disposal application from Samson Resources Company: State C AC1 #4 30-025-01037 Miss-Dev open hole 10800 to 11275

Hello Kenneth:
Hope all is well?

Just a few requests and questions,

- a. The sundry intent in the well file differed a little from the submitted wellbore diagram. Would you send a new "BEFORE" diagram and new "AFTER" diagram showing the proposed liner in its estimated position.
- b. ✓ Understand the Devonian top in this well (10920) is lower on structure than any producing well within 1 mile – please verify this.
- c. ✓ What disposal pressures have you experienced on the #3 well? What pressures do you anticipate on this well when disposing all you want to dispose?
- d. ✓ Do you still expect the Devonian open hole to take all the water and none into the Miss? Better for us for you to state that in your application.
- e. What formations will be contributing waste water to this well? (may have missed this one...)
- f. The rules for notice require notice to whomever controls the minerals in all tracts within ½ mile of this well – not just the offsetting operators. We received a colored map covering most of Section 2 but not the other parts of the ½ mile circle around this well. Would you please ask your landman to let determine all the separately owned tracts of minerals in the Miss/Devonian depths and identify each tract and the owners of each tract and show proof of notice. I am attaching an example.
- g. Even if logically the disposal will enter only the Devonian, the proposed disposal open hole interval is actually from the Lower Miss into the Devonian and from depths of the bottom of the new liner to the bottom of the open hole – those are the depths that should be advertised in the notices sent out.

Have a fun summer,

William V Jones, P.E.
Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462



Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Saturday, July 16, 2011 7:10 PM
To: Kenneth Krawietz
Cc: Ezeanyim, Richard, EMNRD; Gonzales, Elidio L, EMNRD; Kautz, Paul, EMNRD
Subject: Disposal application from Samson Resources Company: State C AC1 #4 30-025-01037
Miss-Dev open hole 10800 to 11275
Attachments: EddyNM_NASH_53_SWD.pdf

Hello Kenneth:
Hope all is well?

Just a few requests and questions,

- a. The sundry intent in the well file differed a little from the submitted wellbore diagram. Would you send a new "BEFORE" diagram and new "AFTER" diagram showing the proposed liner in its estimated position.
- b. ✓ Understand the Devonian top in this well (10920) is lower on structure than any producing well within 1 mile – please verify this.
- c. ✓ What disposal pressures have you experienced on the #3 well? What pressures do you anticipate on this well when disposing all you want to dispose?
- d. ✓ Do you still expect the Devonian open hole to take all the water and none into the Miss? Better for us for you to state that in your application.
- e. What formations will be contributing waste water to this well? (may have missed this one...)
- f. The rules for notice require notice to whomever controls the minerals in all tracts within ½ mile of this well – not just the offsetting operators. We received a colored map covering most of Section 2 but not the other parts of the ½ mile circle around this well. Would you please ask your landman to let determine all the separately owned tracts of minerals in the Miss/Devonian depths and identify each tract and the owners of each tract and show proof of notice. I am attaching an example.
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Injection Permit Checklist (11/15/2010)

WFX PMX SWD 277-A Permit Date 9/11/11 UIC Qtr (J/A/S)

Wells 1 Well Name(s): State C A/C1 #4 SWD

API Num: 30-0 25-01037 Spud Date: 6/22/00 New/Old: 0 (UIC primacy March 7, 1982)

Footages 660FSL/660FWL Unit M Sec 2 Tsp 12S Rge 33E County LEA

General Location:

Operator: Samsco Resources Company Contact: Debbie Bodingfield/Kameth Krause

OGRID: 20165 RULE 5.9 Compliance (Wells) 3/15 (Finan Assur) OK IS 5.9 OK? X

Well File Reviewed - Current Status: -

Planned Work to Well:

Diagrams: Before Conversion After Conversion Elogs in Imaging File:

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
	Hole.....	Pipe				
New <input type="checkbox"/> Existing <input checked="" type="checkbox"/> Surface	11	13 3/8	319	-	350	Surf (Calc)
New <input type="checkbox"/> Existing <input checked="" type="checkbox"/> Intern	12	9 5/8			2800	Surf
New <input type="checkbox"/> Existing <input checked="" type="checkbox"/> LongSt	8 5/8	7			1825	4770 IS
New <input type="checkbox"/> Existing <input type="checkbox"/> Liner						
New <input type="checkbox"/> Existing <input checked="" type="checkbox"/> OpenHole			10852-11275 TD			

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above	10365	MISS	<input checked="" type="checkbox"/>
	10920	DEV	<input checked="" type="checkbox"/>
Injection TOP:	10852	MISS	
Injection BOTTOM:	11275	DEV	
Formation(s) Below			

SIDETRACKED @ 10852' Drilled to 11,275'
(Lost FWD vol = JAN-2010)

Max. PSI 2170 Open Hole Perfs 1
Tubing Size 2 7/8 x 2 3/8 Packer Depth > 10,752

R-6646 SWD IN UNIT L

Capitan Reef? - (Potash? - Noticed? -) (WIPP? - Noticed? -) Salado Top/Bot - Guff House? -

Fresh Water: Depths: > 1700' Formation Santa Rosa Rawley Lake Wells? - Analysis? - Affirmative Statement

Disposal Fluid Analysis? Sources: DEV Prod. water

Disposal Interval: Analysis? Production Potential/Testing: well

Notice: Newspaper Date 8/21/11 Surface Owner SLO Mineral Owner(s) -

RULE 26.7(A) Affected Persons: APACHE/Plata/Sitar

AOR: Maps? Well List? Producing in Interval? Wellbore Diagrams? I WITH TD = 10950' PALADIN OPERATOR

.....Active Wells 2 Repairs? No Which Wells? -

.....P&A Wells 4 Repairs? NP Which Wells? -

NEW P&A on 01053, SHAW OUTSIDE CNT

Too many NOTICES

Issues: Request Sent _____ Reply: _____