e-mail Address

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE Application Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedic [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Comming [PC-Pool Commingling] [OLS - Off-Lease Measuremen [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 of Public Interest of Pressure Increase] [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD SD NSP SD SD OLM [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR [D] Other: Specify SWD IPI EOR PPR [D] Other: Specify Offset Operators, Leaseholders or Surface Owner Offset Operators, Leaseholders or Surface Owner Offset Operators, Leaseholders or Surface Owner Offset Operators of Public Lands, State Land Office Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office	cation] ngling] nt]
Application Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedic [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commin [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measuremen [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Responsible Properties of the Properti	ngling] nt]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measuremen [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Responsion] [TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD SD SD Check One Only for [B] or [C] [B] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM CTB PMX SWD IPI EOR PPR PPR DOTHER Specify SWD IPI EOR PPR PMX SWD SWD IPI EOR PPR PPR PMX SWD SWD	ngling] nt]
[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 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	
[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 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	
WFX PMX SWD IPI EOR PPR [D] Other: Specify [Variable PMX SWD IPI EOR PPR [D] Other: Specify [Variable PMX	
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	
 [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 	
[C] Application is One Which Requires Published Legal Notice [D] Notification and/or Concurrent Approval by BLM or SLO	
[D] Notification and/or Concurrent Approval by BLM or SLO	
[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	l/or,
[F] Waivers are Attached	
[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS OF APPLICATION INDICATED ABOVE.	SS THE TYPE
CERTIFICATION: I hereby certify that the information submitted with this application for a approval is accurate and complete to the best of my knowledge. I also understand that no action will 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



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

2010 JB -7 A II: 24:

SENT VIA FEDERAL EXPRESS

June 4, 2010

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

Disposal Permit Modification - Order No. R-6646

State C A/C 1 #3 SWD Lea County, NM

Dear Mr. Jones:

Please find enclosed the following required documents in an effort to modify the State C A/C 1 #3 SWD in Lea County, New Mexico Disposal Order No. 6646.

- 1. Original and one copy of Form C-108 (One copy sent to the Hobbs, NM District Office)
- 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 1981 (document imaging available)
- 11. Affirmative Statement
- 12. Proof of Notice Application submitted, via certified mail, to the surface owner and each lease-hold operator within ½ mile of the above referenced well.
- 13. Proof of Notice Photocopy of published newspaper Legal Notice and Affidavit of same will be submitted under separate cover.

Please note the above listed documents were submitted in the original application by the previous operator, Sun Texas Company, in 1981 and approved under Order No. R-6646.

State of New Mexico Energy, Minerals and Natural Resources Department Page 2 6/4/2010

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

Dubin Latingfuld
Debbie Bedingfield
Environ **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

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
11.	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 X 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 reinjected 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
	NAME: Kenneth Krawietz TITLE: Manager-Division Operations SIGNATURE: DATE: 6/4/10
*	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 1981 by Sun Texas Company; Permit Order No. R-6646 approved April 7, 1981; acquired by Samson Resources Company

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.

OPERATOR:

Samson Resources Company

WELL NAME & NUMBER: State C A/C 1 #3 SWD

WELL LOCATION: 1980 FSL & 660 FWL

WELLBORE SCHEMATIC (See Attached)

FOOTAGE LOCATION

 L
 2
 12S
 33E

 UNIT LETTER
 SECTION
 TOWNSHIP
 RANGE

 WELL CONSTRUCTION DATA
 Surface Casing
 Surface Casing

 Hole Size:
 17"
 Casing Size:
 13 3/8" @ 324"

Intermediate Casing

Method Determined: Circulated

Surface

Top of Cement:

 ft^3

or

SX.

350

Cemented with:

Hole Size:12 1/4"Casing Size:9 5/8"Cemented with:2700sx. orft³Top of Cement:SurfaceMethod Determined: Circulated

Production Casing

Hole Size:8 7/8"Casing Size:5 ½"Cemented with:3000sx. orft³Top of Cement:SurfaceMethod Determined:Circulated

Total Depth: 11,370

Injection Interval feet to 11,370 feet

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tul	Tubing Size:	2 7/8"	Lining Material:	Plastic
Ty	pe of Packer: _ <u>AS-1Pkr</u>	@ 10,380'; Perma Latch @10	,660' (left in hole 9/89); Pe	Type of Packer: AS-1Pkr @ 10,380'; Perma Latch @10,660' (left in hole 9/89); Perma Latch @10,608 (left in hole 5/05)
Pa	Packer Setting Depth: _	10,380		
Ot	her Type of Tubing/(Other Type of Tubing/Casing Seal (if applicable):		
		Addi	Additional Data	
Η.	Is this a new well drille	drilled for injection?	Yes	No
	If no, for what purpose		lly drilled? <u>Devonian l</u>	was the well originally drilled? Devonian Producer in 1950. Converted to injection in 1981.
2.	Name of the Injection Formation:	ion Formation:	Devonian	Ü
ж.	Name of Field or Pool	ool (if applicable):	Bagley Sil	Bagley Siluro - Devonian
4.	Has the well ever lintervals and give	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. 9950' (s	ner zone(s)? List all su of cement or plug(s) u	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. 9950' (sqzd by circ 2800 sxs cmt)
	10,856' to 10,890'	(sqzd w/ 250 sxs Cl "H"); 10,907' to 10,994' (10,856' to 10,890' (sqzd w/ 250 sxs Cl "H"); 10,907' to 10,994' (sqzd w/ 150 sxs Cl "H")
ς.	Give the name and depths of injection zone in this area:	J(any oil or gas zones underlying or ov Devonian Formation – Top 10,848'	erlying the proposed
		Mississippian -	Mississippian – Top 10,330' (not productive in the field)	ductive in the field)
		Penn - Top 8,897	76	

Jones, William V., EMNRD

From:

Debbie Bedingfield [DBEDINGFIELD@samson.com]

Sent:

Wednesday, September 22, 2010 3:13 PM

To:

Jones, William V., EMNRD

Cc:

Kenneth Krawietz; Gina Saddler; Autumn Long

Subject:

FW: State C A/C 1 #3 SWD - Lea County, NM (API #30-025-01036)

Attachments:

[Untitled].pdf

Mr. Jones, please find attached, a modified Well Bore Diagram and Form C-103 Subsequent Well Integrity Tests and Repair reports.

Please do not hesitate to contact me if additional information is required.

Thank you.

Debbie Bedingfield

Environmental & Safety Technician

Telephone: (918) 591-1388

Fax: (918) 591-7388

----Original Message----From: Debbie Bedingfield

Sent: Wednesday, September 22, 2010 3:54 PM

To: Debbie Bedingfield

Subject:

Jones, William V., EMNRD

From: Jones, William V., EMNRD

Sent: Tuesday, September 21, 2010 8:29 AM

To: 'Kenneth Krawietz'

Cc: Brown, Maxey G, EMNRD

Subject: State C AC 1 #3 Devonian SWD Well 30-025-01036 Bagley Caprock area Lea County, New

Mexico

Hello Kenneth:

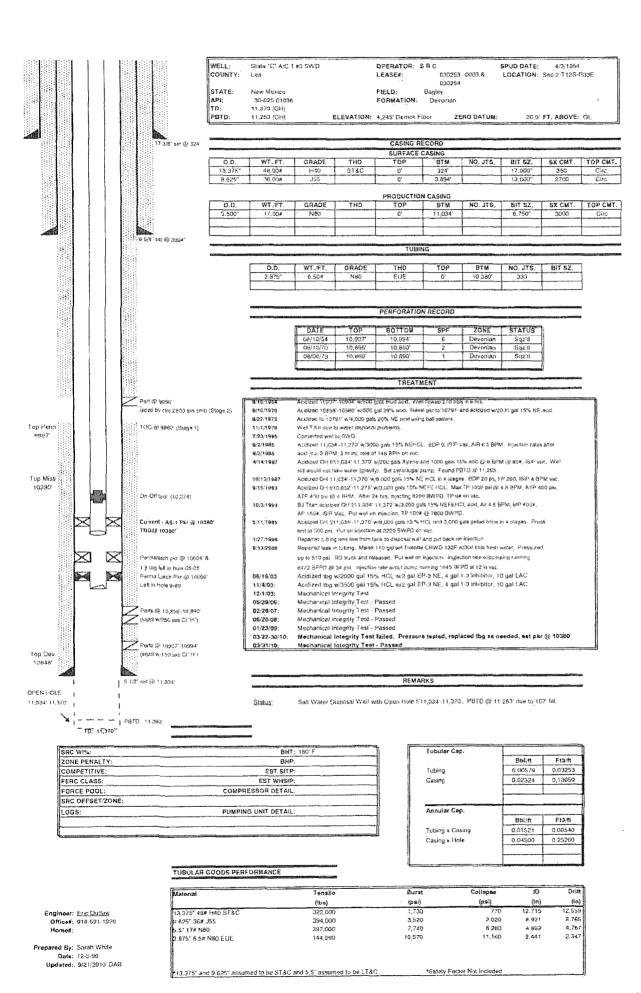
Looks like Samson's Rule 5.9 compliance status is A-OK this morning.

Please mail to me here in Santa Fe a new Well Bore Diagram of this well showing the current exact packer setting depth and the condition of the last MIT test and I will re-evaluate this application.

Regards,

Will Jones
New Mexico
Oil Conservation Division
Images Contacts

The state of the s





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

SENT VIA FEDERAL EXPRESS

April 28, 2010

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
Attn: Elidio Gonzales
1625 North French Drive
Hobbs, NM 88240

Reference:

C-103 Subsequent Reports:

State BD #3

- Lea County, NM

State C A/C 1 #3

- Lea County, NM

Dear Mr. Gonzales:

Please find enclosed, the above referenced C-103 subsequent reports for the State BD #3 and State C A/C 1 #3 in Lea County, New Mexico

Please do not hesitate to contact me at (918) 591-1364 if you have any questions, or need additional information.

Thank you very much.

SAMSON

autumn M. Long

Environmental Specialist

DB:

cc: Gerry Petree - Superintendent

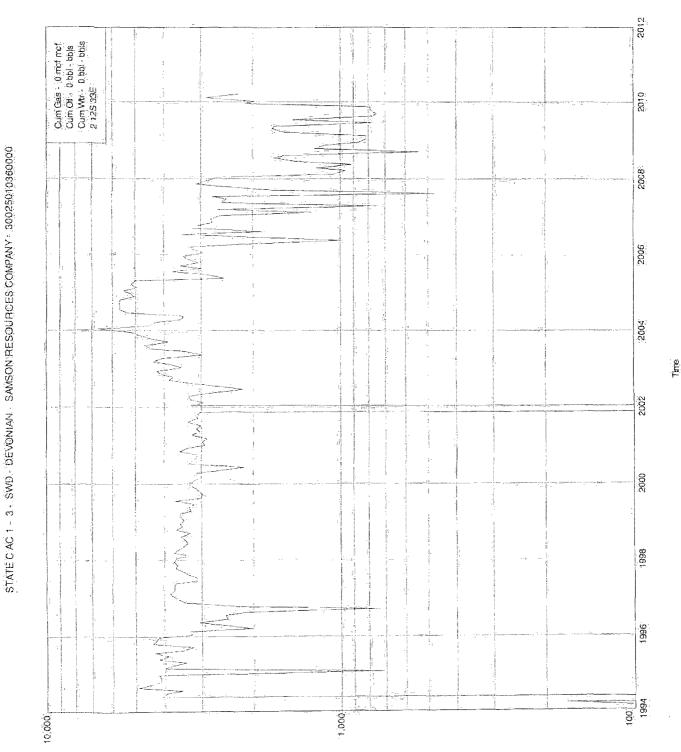
Submit Copy To Appropriate District Office .	State of N	New Me	xico		Form C-103
District I	Energy, Minerals a	and Natur	ral Resources	American from some data and street of the state of the st	October 13, 2009
1625 N. French Dr., Hobbs, NM 88240				WELL API NO.	
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERV	ATION	DIVISION	30-025-01036	of London
District III	1220 South St. Francis Dr.			5. Indicate Type of STATE	FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87505			6. State Oil & Gar	
1220 S. St. Francis Dr., Santa Fc, NM		•		o. oano on co	J 230470 1101
87505	ODE AND DEBOTE ON	INTERC		7 7 2	YY A A A A A A A A A A A A A A A A A A
(DO NOT USE THIS FORM FOR PROPO	CES AND REPORTS ON SALS TO DRILL OR TO DEEP		IG BACK TO A	/. Lease Name or	Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLIC				STATE CAC 1	
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well Other: SV	wo.		8. Well Number	3
2. Name of Operator	Gas Well M Other, Sv	YIJ		9. OGRID Numb	^ *
Samson Resources Company				20165	GÍ
3. Address of Operator	······································			10. Pool name or	Wildcat
Two West Second Street, Tulsa, O.	K 74103			SWD Devonian	,
4. Well Location		***************************************		<u> </u>	
	1980feet from the	South	line and	660 feet fro	om the Westline
Section 2	Township	12S	Range 33		Lea County
Company of the Compan	11. Elevation (Show wh				Lea County
	4245' DF	· · · · · · · · · · · · · · · · · · ·	111, 011, 010,	·	
	ww.				
12. Check A	Appropriate Box to Inc	dicate Na	ature of Notice.	Report or Other	Data
				•	
NOTICE OF IN				SEQUENT RE	
PERFORM REMEDIAL WORK	PLUG AND ABANDON		REMEDIAL WOR		ALTERING CASING
TEMPORARILY ABANDON TEMPORARILY ABANDON TEMPORARILY ABANDON TEMPORARIL ABANDON TE	CHANGE PLANS		COMMENCE DRI		P AND A
PULL OR ALTER CASING DOWN THE COMMUNICIPATION OF THE COMMUNICIPAT	MULTIPLE COMPL		CASING/CEMEN	L JOB 🖂	
DOWNHOLE COMMINGLE					
OTHER:		П	OTHER: Repair 1	Tubing Leak and We	ell Integrity Test
13. Describe proposed or comp	leted operations. (Clearly	state all p	ertinent details, and	d give pertinent date	es, including estimated date
of starting any proposed we	ork). SEE RULE 19.15.7.	14 NMAC	. For Multiple Cor	mpletions: Attach w	vellbore diagram of
proposed completion or rec	ompletion.				
2 22 2010					
3-22-2010; Mechanical Integrity Test Performed	d Foiled: witnessed by M	Invia Brow	va with OCD		
Mechanical integrity rest renomina	1 I alled, withessed by w	taxic Diov	VII WITH OCD		
3-23-2010;					
Move in Spot Rig					
• -					
<u>3-24-2010;</u>	t ext mints				
MIRU TWS WSU; RU pump truck Quad Monitor to check for H2S, no					
'frozen'/will not release; release pkr					
NU manual BOP ass'y; TOH with 3					
Pkr ass'y (all tbg IPC - top 60 jts tb					
land jt. thg - remainder of thg extern					
3-25-2010:	20 kg J d MU	DII Daina	I	1.150f NUCCE	-in-20 hal inhihitar 5 and
Pump 20 Bbl. water down csg - pur non-emulsifier, 25 gal liquid citric	np 20 ooi, down tog - Mit	ku reirop ith 0 mi -fl	iex –pump 5000 ga	1 15% NEFE CONIAI	ning 20 gai minonor, 5 gai
Close BOP: SDFN	icio, pumpeu 0.4 pr wi, wi	iai o psi, 1	ruan 120 opt. Walci	- KD I chobies -	1 OTT MOTHE OTHER
OMOS BOX - OWALL					
<u>3-26-2010:</u>					
Continued testing tubing in hole, 33			k, set pkr in 20 pt.	compression, MIRU	J pump truck, loaded esg
w/ 24 bbls, test csg w/ 340#, looked	good, shut-in well SDON				

Continued testing the in hole, 332 jts, @ 10,380', RD the testing truck, set pkr in 20 pt. compression, MIRU pump truck, loaded csg w/

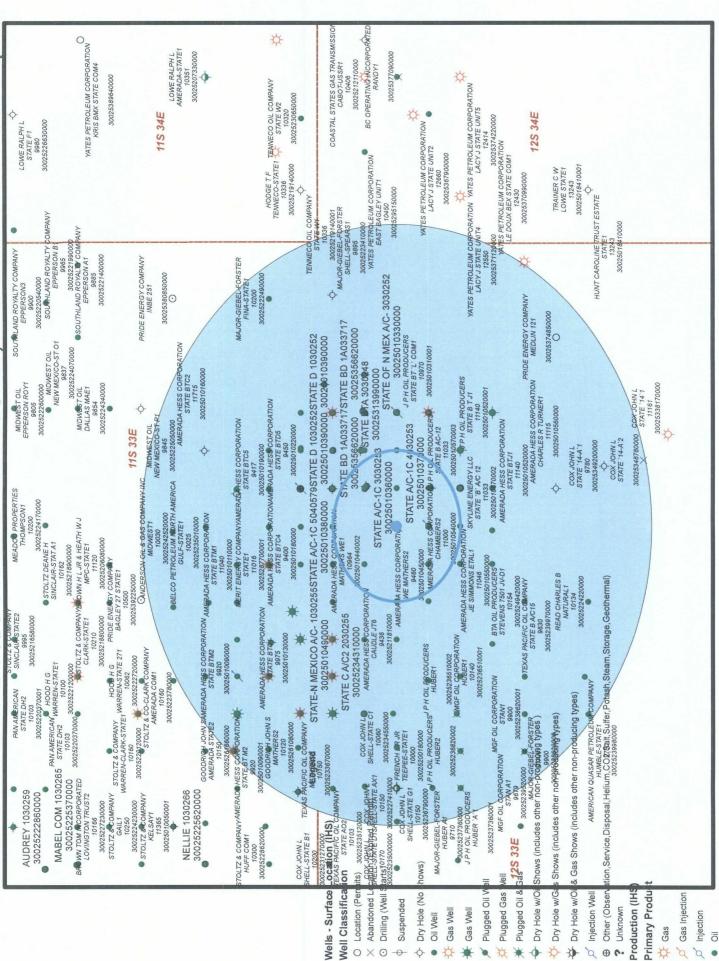
24 bbls, test csg w/ 340# looked good, shut-in well SDON

3-29-2010: Well static. Release On/Off Tool. Displace annulu	is to pkr fluid. Latch up. Bleed air. Test to	400# - Held for 20 min. SDFN.
3-30-2010: Well static. ND BOP. Change out WH. Install 7 I Bleed press. RDMO PU.	/16" x 3000# flange. Pressure test annulus	to 400#. Hold for 30 min. Good test.
3-31-2010: Performed Mechanical Integrity Test witnessed by	M. Brown. Well returned to injection.	
	r ink Body Packer Left in hole 9-89 approxim n: 11,370	nately 10,900)
Total Load Left to Recover: 370 Bbl Will	Not Be Recovered	
Spud Date:	Rig Release Date:	
I hereby certify that the information above is true a	and complete to the best of my knowledge ar	nd belief.
SIGNATURE autumn M. Long	TITLE: Environmental Specialist	DATE 4 28 10
Type or print name: Autumn Long For State Use Only	E-mail address: autumnl@samson.com	PHONE: (918) 591-1364
APPROVED BY:	TITLE	DATE

Submit 1 Copy To Appropriate District	State of New Mexico	Form C-103
District ! 1625 N. French E.A., Hobbs, NM 88240 District !!	Energy, Minerals and Natural Resources	WELL API NO. 30-025-01036
1301 W. Grand Ave., Artesia, NM 88210 District III	OIL CONSERVATION DIVISION 1220 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87505	STATE FEE 6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		
SUNDRY NOTICES	AND REPORTS ON WELLS TO DRILL OR TO DEEPEN OR PLUG BACK TO A N FOR PERMIT* (FORM C-10)) FOR SUCH	7. Lease Name or Unit Agreement Name
PROPOSALS.) 1. Type of Well: Oil Well Gas		8. Well Number
2. Name of Operator SAMSON RESOURCES	n de la Maria Maria Maria Maria de la como como como de la maria de la como de la como de la como de la como de	9. OGRID Number 20165
3. Address of Operator		10. Pool name or Wildcat
200 N LORAINE, STE 1010, MIDLAI	ND, TX 79701	BAGLEY SILURO - DEV
4. Well Location Unit Letter L : 1980	feet from the S line and 660 feet fro	orn the NAV . line
Section 2	Township 12S Range 33E	om the W line NMPM LEA County
	Elevation (Show whether DR, RKB, RT, GR, etc. 4254' DR	
12. Check Appr	opriate Box to Indicate Nature of Notice	, Report or Other Data
NOTICE OF INTEN	JIION TO:	SSEQUENT REPORT OF:
· · · · · · · · · · · · · · · · · · ·	UG AND ABANDON ☐ REMEDIAL WO	RK ALTERING CASING
		RILLING OPNS. P AND A
PULL OR ALTER CASING ML DOWNHOLE COMMINGLE	ILTIPLE COMPL CASING/CEMEN	11 30B
OTHER:		FORMED WELL INTEGRITY TEST
13. Describe proposed or completed	operations. (Clearly state all pertinent details, and SEE RULE 19.15.7.14 NMAC. For Multiple Co	nd give pertinent dates, including estimated date
proposed completion or recompl		impletions. Attack welloose diagram of
3-31-10		
Performed a well integrity test witnesse	ed by OCD M Brown. Well returned to inject	ion.
	Charles 1/8	
	700 14/8	
	7	
		and holing
I hereby certify that the information above	e is true and complete to the best of my knowled	ge and bener.
SIGNATURE Usuny Victor	TITLE Operations Man	ager DATE 04-10-2010
Type or print name Kenny Krawietz For State Use Only	E-mail address: kkrawietz@sau	nson.com PHONE: 432-683-7063
APPROVED BY:	TITLE	DATE
Conditions of Approval (if any):		

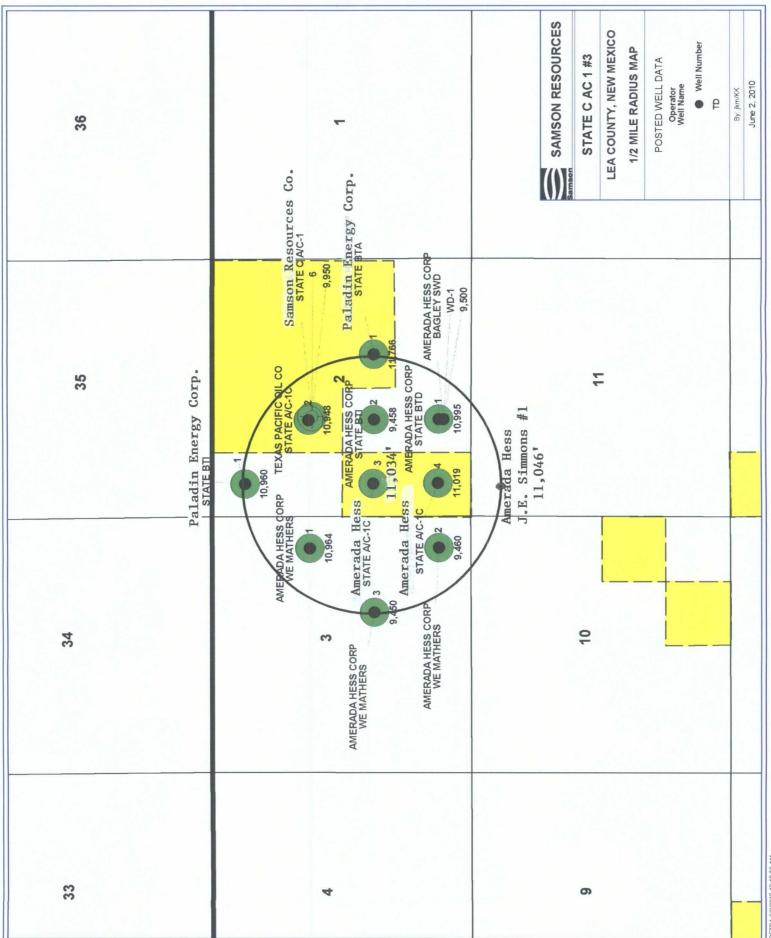


STATE C A/C 1 #3 SWD - LEA COUNTY, NEW MEXICO





Oil Injection

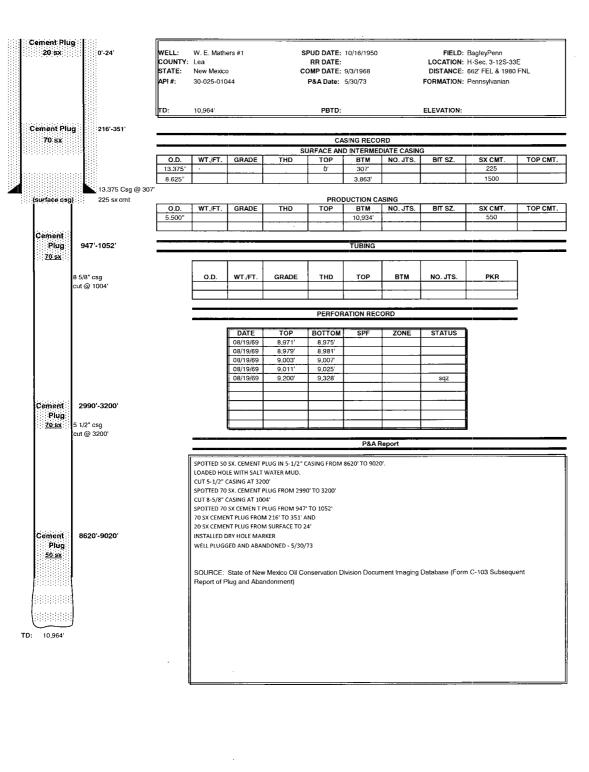


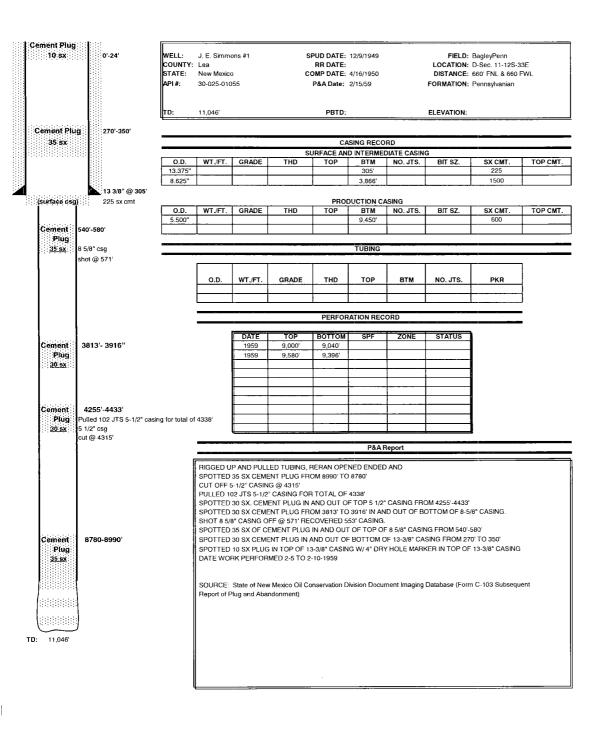
Status	Shuin - TAYD	PA'D (Schematic Attached)	Active	Active	Adivo	Shut-In	PA'D (Schematic Attached)	PA'D (Schematic Attached)
Producing Formation	Siluro-Devonian	Bagley Siluro- Devonian	Siluro-Devonian	Devonian	. Devonian	Devonian	Penn	Penn
Producing/Formerly Producing Devonian Intervals	10,580 - 10,548; 10,580 - 10,585; 11,090 - 11,11E.	了了	10,842 - 10,875; 10,898 - 10,905; 10,922 - 10,960	10/778] =10,948	10.907.	10,852' 11,275' (Open Hote)	· 0 K	ÓK
Top of Cement	3868; 3868; 7970; (11,098		282; 3761; 10;908	10,446'	086'6	Surface; 4,710		
Total Depth	99111	10995'	.09601	10948	11034/(11,370)	11019	10964'	11046'
Completion Date	961/91/10	12/6/1949	12/2/1950	0561/5/9	6961/61/8	10/25/1951	9/3/1968	4/16/1950
Date Drilled	11/25/1948	8/8/1949	8/14/1950	2/17/1950	4/3/1954	1561/61/9	10/16/1950	12/9/1949
Unit/Location	1-07-1728-33E	N-02-12S-33E	D-02:12S-33E	F-02-12S-33E	L-02-125-33E	/ M-02-12S-33E	Н-03-12S-33Е	D-11-12S-33E
er Type	001	27 Oil	ਰ	ਰ ((0.WS)	<u>2</u>	10 88
API Number	COUNTY CO	30-025-01027	30.025-01028	20-025-01038	3	30-025-01037 (SWD 2) M.	30-025-01044	30-025-01055
Well#		[_		2	6	7	-	-
Lease Name		State BTD	State BTJ	State C A/C 1	State C: A/C 1.	State C.A/C 1	W E Mathers	Pre-Ongard Well
Operator	Schoolstein für ein der nehm in der nehm i	Amerada Hess Corporation	Paladin Energy Corporation	Samson'Resources	Samson Resources Co.	Samson. Resources	Amerada Hess Corporation	Amerada Hess Corporation

TOP CMT.

TOP CMT.

Cement Plug 20 sx WELL: State BT "D" #1 SPUD DATE: 8/8/1949 FIELD: BagleyStrawn LOCATION: N-Sec. 2-12S-33E DISTANCE: 660' FSL & 1980 FWL 0'-24' COUNTY: Lea STATE: New RR DATE: New Mexico COMP DATE: 12/6/1949 AP! #: 30-025-01027 P&A Date: 5/30/73 FORMATION: Bagley Siluro-Devonian 10,995 PBTD: ELEVATION: 4250 lto: Cement Plug 235'-309' 70 sx CASING RECORD SURFACE AND INTERMEDIATE CASING
TOP BTM NO. JTS. O.D. WT./FT. GRADE THD BIT SZ. SX CMT. 13.375" 54.50# 300' 32.00# 1000 13.375 Csg @ 300' PRODUCTION CASING
OP BTM NO. JTS. 250 sx cmt O.D. WT./FT. GRADE THD BIT SZ. SX CMT. TOP 17.00# 10,980 Cement Plug 565'-700' 70 sx 8 5/8" csg O.D. WT./FT. GRADE THD TOP втм NO. JTS. PKR cut @ 647 PERFORATION RECORD воттом SPF ZONE DATE Cement 3820'-4030 Plug 5 1/2" csg cut @ 3992' 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 25' TO 309' AND 20 SX. CEMENT PLUG FROM 24' TO SURFACE INSTALLED DRY HOLE MARKER 8790'-9190' WELL PLUGGED AND ABANDONED - 5/30/1973 Cement Plug 50 sx SOURCE: State of New Mexico Oil Conservation Division Document Imaging Database (Form C-103 Subsequent Report of Plug and Abandonment) TD: 10,995







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

RECEIVED (
2010 JUN 28 P 2: 1

SENT VIA FEDERAL EXPRESS

June 25, 2010

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

Form C-103

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

Dear Mr. Jones:

Please find enclosed the Form C-103, original charts for the Mechanical Integrity Test conducted 5/14/2010 and an updated wellbore diagram for the State C A/C 1 #4 SWD well in Lea County, New Mexico.

Please do not hesitate to contact 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

Submit 1 Copy To Appropriate District Office	State of New Mexico	Form C-103
<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>	Energy, Minerals and Natural Resources	WELL API NO.
1301 W. Grand Ave., Artesia, NM 88210 District III	OIL CONSERVATION DIVISION 1220 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87505	STATE S FEE 6. State Oil & Gas Lease No.
87505 SUNDRY NOTI	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOS	SALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A CATION FOR PERMIT" (FORM C-101) FOR SUCH	STATE C AC 1
	Gas Well Other: SWD	8. Well Number 4
2. Name of Operator Samson Resources Company		9. OGRID Number 20165
3. Address of Operator		10. Pool name or Wildcat
Two West Second Street, Tulsa, Ol	ζ 74103	SWD Devonian
4. Well Location		
	660feet from theSouth line and	d660feet from the _Westline
Section 2	Township 12S Range	33E NMPM Lea County
Her the	11. Elevation (Show whether DR, RKB, RT, GR 4237' GR	, etc.)
	7237 GR	
12. Check A	appropriate Box to Indicate Nature of Not	tice, Report or Other Data
NOTICE OF IN		SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL \	
TEMPORARILY ABANDON DULL OR ALTER CASING	CHANGE PLANS COMMENCE MULTIPLE COMPL CASING/CEI	E DRILLING OPNS. □ P AND A □ MENT JOB □
DOWNHOLE COMMINGLE	MOETH EL GOIVILE GOAGHA, GER	MENT JOB
071150		
OTHER: 13 Describe proposed or comp		n New Tubing, Set Packer & Well Integrity Test Is, and give pertinent dates, including estimated date
	rk). SEE RULE 19.15.7.14 NMAC. For Multiple	
<u>5-14-2010:</u>		
Mechanical Integrity Test Performed	– Failed; witnessed by Maxie Brown with OCD – did not pass Mechanical Integrity Test – Char	ts Attached
·	and the second of the second March	anical Internity Tree
Plans to repair - Locate leak and atte	mpt to repair, then will perform subsequent Mech	anical integrity Test
Spud Date:	Rig Release Date:	
I hereby certify that the information	above is true and complete to the best of my know	vledge and belief.
SIGNATURE Quitumn /	7. Loy TITLE: Environmental Spe	ecialist DATE 6/25/10
Type or print name: Autumn Long For State Use Only	E-mail address: <u>autumnl@samsor</u>	
APPROVED BY:	TITLE	DATE

•

Perfs @ 9000'-9048' (Sqz'd) Perfs @ 9370'-9454' (Sqz'd) Perfs @ 9492'-9760' (Sqz'd) Perts @ 9844'-9968' (Sqz'd)

OPEN Whipstock #2 HOLE 10,852 11,275 Whipstock #1 @ 10936

7" set @ 11019'

WELL:

State "C" A/C 1 #4 SWD COUNTY:

29.00#

Lea New Mexico

STATE: API: 30-025-01037-0000 11,275'

PBTD:

9 5/8" set @ 3876'

TOC @ 4,710'

Otis On/Off Tool @ 10687 Arrow Set Pkr @ 10,727 3.5" EOT @ 10,712'

Casing Window @ 10,852'-10,864'

@ 10869

OPERATOR: SRC

LEASE#: FIELD: 030253 -0004 Bagley Hightower

FORMATION:

ELEVATION: 4,255' KB

ZERO DATUM:

LOCATION: Sec 2-T12S-R33E 660' FSL & 660' FWL 13.0' FT. ABOVE: GL

SPUD DATE: 6/19/1955

8 750"

CASING RECORD

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

TUBING

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

PERFORATION RECORD

N80

	9,02 022' 9,04 044' 9,96	8' 8	Penn Penn	Sqz'd Sqz'd
			Penn	Saz'd
07/18/73 9.1	0.00			
	9,90	8'	Penn	Sqz'd
09/02/73 9,4	192' 9,76	0'	Penn	Sqz'd
09/25/73 9,3	370' 9,45	4'	Penn	Sqz'd
11/02/88 10	852' 11,27	75'	Devonia	n Open Hole

TREATMENT

regular acid. 7/18/1973 Set CIBP @ 10,000', PBTD @ 9998'. Sqz'd Pen 9968' and acidized w/5,000 gals 15% acid. 9/2/1973 Acidized perfs 1/9492'-9760' w/2,000 gals 15% ac	
9968' and acidized w/5,000 gals 15% acid.	
9/2/1973 Acidized perfs f/9492'-9760' w/2,000 gals 15% ac	
	id, No show of oil or gas. Added
perfs 9370'-9454' and acidized w/5000 gats 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 perfs f/9370'-9454'.
9/10/1988 Drilled out CIBP @ 9470'-9472'. Tagged CIBP @	9987', Sqz'd perfs f/9492'-9760' &
f/9844'-9968'. Tagged CIBP @ 9987'. Drilled plu	ig 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 @ 108	69'.
11/18/1988 Began drilling 5.875" OH; TD @ 11,240'. Attemp	ited 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 gelle	ed 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 1 185 psi. Post-work rate=22000 BWPD, vacuum.	20 psi @ 3.4 BPM. Pre-work rate=1510 BWPD,
8/23/1999 Load casing w/1 BW. Pump 1500 gals 15% NEF	E with 1.5 gals Low-Surf 300 and 1.5 gals HAI81
Flush w/93 bbls produced water. Ave psi=355, N	lax psi=841, Ave rate=3.4 BPM, Max rate=4.3
BPM, ISIP=101 psi. Returned well to injection.	
6/18/03: Acidized thg w/2000 gal 15% HCL w/2 gal EP-3 h	NE, 4 gal 1-3 inhibitor, 10 gal LAC
11/4/03: Acidized tbg w/3500 gal 15% HCL w/2 gal EP-3 h	NE, 4 gat 1-3 inhibitor, 10 gal LAC
12/1/03: Mechanical Integrity Test	
05/14/10: Csg leak, failed MIT	

MISCELLANEOUS

SRC WI%: 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:	

Comments:

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

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

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

Material	Tensile	Burst	Collapse	ID	Drif
	(lbs)	(psi)	(psi)	(in)	(in)
13.375" 48# Ĥ40 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 .				

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

SAMSON RESOURCES COMPANY

State C A/C 1 #3 SWD API No. 30-025-01036 Section: 2-T12S-R33E Lea County, NM

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

Maximum Daily Injection Rate (approx.): 5,525 BWPD

System: Closed

Average Injection Pressure: 0 psi

Maximum Injection Pressure: 2200 psi

Source: Devonian Produced Water



Water Analysis Repc

1/24/01

Address: 4419 Harlowe

30ZS

Customer: Samson Resources Company

Attention: Floyd Steed

Midland, TX 79703

Lease: St C A/C1

F	0	п	n	a	t	įΩ	n:
F	0	П	n	a	t	įQ	O.

Farget Name: St C A/C 1 1	rget Name: St C A/C 1 1		Sample Point: St C A/C 1 1		5/2001	Test Date: 01/23/20
later Analysis(mg/L)		Appended Dat	a(mg/L)	Physical Prope	rties	
alcium	2165	CO2	CO2 290		Ionic Strength(calc.)	
agnesium	680	H2S	0	pH(calc.)		
arium		Iron	0	Temperature(°	F)	90
trontium		1		Pressure(psia))	50
odium(calc.)	18590	Additional Dat	· :a	Density		8.66
icarbonate Alkalinity	1098	Specific Gravity		1.04	De	w Point
ulfate	2495	Total Dissolved Solids(Mg/L)		57028	Lei	ad
hloride	32000	Total Hardness(CaCO3 Eq Mg/L)		8199	Zin	oc .

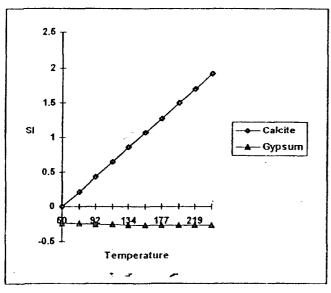
alcite Calculation Information

Calculation Method	Value
Known pH	6.90
emarks:	

Saturation Indices

SI & PTB Results

Scale Type	SI 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 (Strontlum Sulfate)		



Saturation Index Data Points

Calcite	Gypsum
0.01	-0.23
0.22	-0.24
0.43	-0.25
0.65	-0.25
0.86	-0.26
1.07	-0.26
1.28	-0.26
1.50	-0.26
1,71	-0.26
1.92	-0.26
	0.01 0.22 0.43 0.65 0.86 1.07 1.28 1.50

APT # Bassey Devonian Romation

State Meth 3 - 125. 238

State Meth 3 - 125. 238

Sec. 3 - 125.



Customer: Samson Resources Company

Water Analysis Rep.

1/24/01

Address: 4419 Harlowe

Midland, TX 79703

Attention: Floyd Steed

Lease: St C A/C1

Formation:

Target Name: St C A/C 1 2		Sample Point: S	Sample Point: St C A/C 1 2			Test D	
Water Analysis(mg/L)		Appended Date	(mg/L)	Physical Prope	orties		
Calcium	2005	CO2	320	lonic Strength	(calc.)	1	
Magnesium	535	H2S	0	pH(calc.)			
Barium		Iron	2	Temperature(°	°F)		ç
Strontium			<u> </u>	Pressure(psia))		
Sodium(calc.)	19006	Additional Date	1	Density		8	٠.
Bicarbonate Alkalinity	1171	Specific Gravit	у	1.04	De	w Point	Ī
Sulfate	2350	Total Dissolved	J Solids(Mg/L)	57067	Lea	ad	+
Chloride	32000	Total Hardness	(CaCO3 Eq Mg/L)	7205	Zin	ıc	İ
							1

Calcite Calculation Information

Calculation Method	Value		
Known pH	6.87		
Remarks:			

Saturation Indices

SI & PTB Results

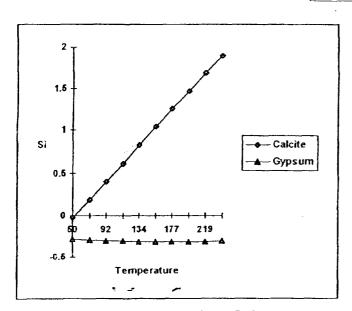
Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.38	210.20
Gypsum (Calcium Sulfate)	-0.30	
Hemihydrate (Calcium Sulfate)	-0.28	
Anhydrite (Calcium Sulfate)	-0.48	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Test Date: 01/23/2001

1.07

90

8.66



Saturation Index Data Points

	Calcille	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

PI # Begley an mile 300 Begley an mile 300 Within Alcuts
State

Committed To Improvement

Customer: Samson Resources Company

Attention: Floyd Steed

Address: 4419 Harlowe

Midland, TX 79703

Water Analysis Report

12/10/01

Lease: State BD

Formation:

CC:

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)		Appended Data(mg/L)	Physical Properti	es
Calcium	160	CO2	Ionic Strength(calc.)	0.08
Magnesium	170	H2S	pH(calc.)	
Barium		Iron 4	Temperature(°F)	90
Strontium			Pressure(psia)	50
Sodium(calc.)	909	Additional Data	Density	
Bicarbonate Alkalinity		Specific Gravity	D	ew Point
Sulfate	245	Total Dissolved Solids(Mg/L)	Le	ead
Chloride	2000	Total Hardness(CaCO3 Eq Mg/L)	1097 Zi	nc
		CT c DTA Poquita		

Calcite Calculation Information

Calcite (Value	Calculation Method	
		O2 in Brine(mg/L)	
Gypsun			
Hemihy			
Anhydri			
Dorido /I			

SI & PTB Results

Scale Type	SI	PTE
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 #3 SWD

Committed To Improvement

Customer: Samson Resources Company

Attention: Floyd Steed

CC:

Water Analysis Report

Address: 4419 Harlowe Midland, TX 79703

Lease: State 8D

Formation:

Target Name: State East Water Well		Sample Point: State East Water Well	Sample Date: 11/25/20	01 Test Date: 12/06/200	
Water Analysis (mg/L)		Appended Data(mg/L)	Physical Properties		
Calcium	160	CO2	Ionic Strength(cal	c.) 0.13	
Magnesium	170	H2S	pH(calc.)		
Barium		Iron 3	Temperature(°F)	90	
Strontium			Pressure(psia)	50	
Sodium(calc.)	2185	Additional Data	Density		
Bicarbonate Alkalinity		Specific Gravity		Dew Point	
Sulfate	200	Total Dissolved Solids(Mg/L)		Lead	
Chloride	4000	Total Hardness(CaCO3 Eq Mg/L)	1097	Zinc	
Calcite Calculation In	formation	SI & PTB Results	9	L	

Calcite Calculation Information

		Scale Type SI	
Calculation Method	Calculation Method Value		SI
CO2 in Brine(mg/L)		Calcite (Calcium Carbonate)	
	ooz iii biine(ingre)		-1.98
Remarks:		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 #3 SWD

12/10/01

PTB

AFFIRMATIVE STATEMENT Geologic Data

Reference: Samson Resources Company

Injection Permit Modification – Order No. R-6646

State C A/C 1 #3 SWD

Lea County, NM

thologic Detail Top Bottom	11,034' 11,370'	ds Unknown Above 1700′ ds Unknown Above 1700′
1	an Lime	osa Red Beds Lake Red Beds
Formation	I: Devonian	Underground Sources of Drinking Water Santa Rosa Dewey Lake
	Injection Interval:	Underground So

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

AFFIDAVIT OF MAILING

Reference: API #30-025-01036

Application to Modify Order No. R-6646, State C A/C 1 #3 in Sec. 2-T12S-R33E

Lea County, NM

I, the undersigned (Debbie Bedingfield), do hereby declare that on <u>June 4, 2010</u>, 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

Amerada Hess Corporation (Leasehold Operator within $\frac{1}{2}$ Mile Radius) P.O. Box 840 Seminole, TX 79360

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 4 day of 4 of 2010

Notary Public
State of Oklahoma
LINDA K. POWELL
TULSA COUNTY
COMMISSION #01014945
My commission explines exp. 10-18-2013

Notary Public



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

June 4, 2010

SENT VIA CERTIFIED MAIL Certified Article Number 7160 3901 9848 3819 2162

SENDERS RECORD.

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 #3 SWD - Lea County, NM

Application to Amend Disposal Permit Order No. R-6646

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements to modify the above referenced disposal order, please find enclosed a copy of the Form C-108 Application amendment, to allow a packer setting depth of 10,380' for injection intervals from 11,034 feet to 11,370 feet. The formations underlying and overlying the packer, are as follows:

Mississippian –

Top of Formation 10,330' (not productive in field)

Devonian

Top of Formation 10,848'

Penn

Top of Formation 8,897'

The amended packer setting depth of 10,380', is in the Mississippian formation. The Mississippian is tight and not productive. The Devonian will take water on a vacuum; therefore, the injected water is entering 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

Environmental & Safety Technician

DB:



Samson Plaza Two West Second Street Tulsa, Oklahoma 74103-3103 USA

918/591-1791

June 4, 2010

SENT VIA CERTIFIED MAIL
Centified Article Number
7160 3901 9848 3819 2179

Senders record

Amerada Hess Corporation (Leasehold Operator within $\frac{1}{2}$ Mile Radius) P.O. Box 840 Seminole, TX 79360

Reference:

Samson Resources Company

State C A/C 1 #3 SWD - Lea County, NM

Application to Amend Disposal Permit Order No. R-6646

Gentlemen:

In an effort to comply with the State of New Mexico Oil Conservation Division requirements to modify the above referenced disposal order, please find enclosed a copy of the Form C-108 Application amendment, to allow a packer setting depth of 10,380' for injection intervals from 11,034 feet to 11,370 feet. The formations underlying and overlying the packer, are as follows:

Mississippian – Top of Formation 10,330' (not productive in field)

Devonian - Top of Formation 10,848' Penn - Top of Formation 8,897'

The amended packer setting depth of 10,380′, is in the Mississippian formation. The Mississippian is tight and not productive. The Devonian will take water on a vacuum; therefore, the injected water is entering the permitted zone. The Devonian formation and Penn formation are isolated from each other.

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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

Deppie Beaingfiela

Environmental & Safety Technician

DB:



Samson Plaza Two West Second Street Tulsa, Oklahoma 74103-3103 USA

918/591-1791

June 4, 2010



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 #3 SWD - Lea County, NM

Application to Amend Disposal Permit Order No. R-6646

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In an effort to comply with the State of New Mexico Oil Conservation Division requirements to modify the above referenced disposal order, please find enclosed a copy of the Form C-108 Application amendment, to allow a packer setting depth of 10,380' for injection intervals from 11,034 feet to 11,370 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

SENT VIA FEDERAL EXPRESS

RECEIVED OCD

2010 JUN 14 A 10: 06

June 11, 2010

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

Injection Permit Modification - Order No. R-6646

State C A/C 1 #3 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 permit modification for the State C A/C 1 #3 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)
Joyce Clemens being first duly sworn on oath deposes and
says that she is Advertisting Director of THE LOVINGTON
LEADER , a daily newspaper of general paid circulation pub-
lished 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 here-
inafter 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 paties which is besite attached autitled
That the notice which is hereto attached, entitled
Legal Notice
was published in a regular and entire issue of THE LOV-
INGTON LEADER and not in any supplement thereof, for
one (1) day, beginning with the issue of
one (i) day, beginning with the issue of
of Ouma 8
01 <u> </u>
And that the cost of publishing said notice is the sum of
\$47.69 which sum has been (Paid) as
Court Costs.
th i
Subscribed and sworn to before me this 10th day of
June 2010

Debbie Schilling

Notary Public, Lea County, New Mexico My Commission Expires June 22, 2010 RECEIVED Environmental & Safety Services

JUN 1 1 2010

LEGAL NOTICE

NOTICE OF APPLICA-TION FOR PRODUCED SALT WATER DISPOSAL WELL PERMIT AMENDMENT

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 a disposal well permit amendment to Order No. R-6646, which injects produced salt water into a formation not productive of oil and gas.

The applicant proposes to amend the permit packer setting depth to 10,380 feet of the State C A/C 1 Lease, Well Number 3. 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: 33.30600; longitude: -103.59110, Unit L, Section 2, Township 12S, Range 33E, in Bagley Field, Lea County, New The produced Mexico. salt water will be injected into strata in the subsurface depth interval from 11,034 to 11,370 feet,

maximum injection volume rate per day of 5,525 barrels, and maximum injection pressure rate not to exceed 2200 psi. The amended packer set-

which is in the Mississippian formation. The Mississippian is tight and not productive. The Devonian will take water on a vacuum, so injected water is entering the permitted zone. The Devonian formation and Penn formation are isolated from each other:

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

Published in the Lovington Leader June 8, 2010.

Jones, William V., EMNRD

Theresa; Deadline 6/1/10 WISERX, THANK YOU

From: Jones, William V., EMNRD

Sent: Tuesday, May 04, 2010 11:05 AM

To: 'Kenneth Krawietz'

Cc: Brown, Maxey G, EMNRD; Kautz, Paul, EMNRD; Ezeanyim, Richard, EMNRD

Subject: RE: State C AC 1 #3 Devonian SWD Well 30-025-01036 Bagley Caprock area Lea County,

New Mexico

Hello Kenneth:

I have looked over this situation and understand this has been the case for years. This is only one of many wells from many operators in Lea county we are finding have packer specified depths and the packers were set higher for myriad reasons – likely good ones. The on the spot permissions to set these packers at higher depths should have been followed up by the operators with requests to "amend" the disposal permits to allow these higher depths. Many times field operations dictate what must be done to a well, but this also means permits must be obtained to match the field conditions.

Packer setting depths within 100 feet of the disposal interval allows an annulus that can be tested regularly to within 100 feet of the disposal interval. The packer setting depths are part of an agreement the State of New Mexico made with the EPA in the early 1980's in order to administer the nationwide UIC program within New Mexico.

In this case hearing order R-6646 allowed disposal into a Devonian open hole from 11034 to 11370. I pulled production/completion records in the 9 sections surrounding and including this one and see the Lower Penn has a Gas. Pool – so we must stay either below this or laterally out of it. I did not see anything in the Mississippian but with the interest in the Shale plays, some of the surrounding owners may be concerned about exposure to disposal assuming the pipe has any holes and there are any permeable intervals.

Since the time of that hearing order permit R-6646, the Division has allowed operators to make application administratively for disposal wells on form C-108. Samson must come into compliance with this permit by either lowering the disposal packer or obtain a new permit allowing disposal into the intervals from your current packer setting depth to the bottom of the open hole.

Assuming you do not want to lower this packer or it is not feasible to lower this packer, a new permit is warranted.

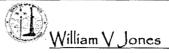
Let me know otherwise, send in a new form C-108 asking for a new administrative permit allowing disposal from depths of 10385 (or however deep you are able to set your packer) to the bottom of the open hole interval.

- a. The C-108 should include the geologist picked "tops" of all formations from surface to the formation below the Devonian.
- b. All "affected parties" should be noticed by sending a copy of the complete form C-108 by certified mail.
- c. Definitions of "affected parties" are not correct on form C-108 and should be obtained in the Division rules at NMAC 19.15.26.7
 - http://www.emnrd.state.nm.us/OCD/documents/20098-5currentrules-new17and39.pdf
- d. After sending notices, if there are any concerns as to waters invading holes in the pipe above the Devonian, you could at that time run an injection survey through that stuck packer to determine what is happening below the packer. And this may be a condition in any new permit let me know your thoughts on this.
- e. All well bores within ½ mile of this well should be either cemented across the entire new disposal interval or be abandoned.
- f. What is the condition of the casing below 10385? Do you have any casing integrity logs or other diagnostics on this interval? What is in the hole below this depth?

Kenneth – please pass this email on to whomever you assign this to and ask them to call or email me with any questions. There are many examples of C-108 submittals on the Division's web site: http://ocdimage.emnrd.state.nm.us/imaging/AEOrderCriteria.aspx select "SWD" and hit "Continue" to see the latest approved disposal permits.

Please send in the C-108 to the Santa Fe office by June 1, 2010.

Regards,



Engineering Bureau, Oil Conservation Division Energy, Minerals & Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 Tel 505.476.3448 ~ Fax 505.476.3462

From: Kenneth Krawietz [mailto:KKRAWIETZ@samson.com]

Sent: Tuesday, May 04, 2010 8:41 AM

To: Jones, William V., EMNRD

Subject: RE: State C AC 1 #3 Devonian SWD Well 30-025-01036 Bagley Caprock area Lea County, New Mexico

I called earlier and got your voicemail. I understand the issue with this well is that packer is set too high. I have not reviewed the permit but the packer has been set at this depth for years. We replaced tubing and put packer back where it was. I can be reached at 432 686 6337. Thanks.

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Tuesday, May 04, 2010 9:32 AM **To:** Kenneth Krawietz; Gerry Petree **Cc:** Brown, Maxey G, EMNRD

Subject: State C AC 1 #3 Devonian SWD Well 30-025-01036 Bagley Caprock area Lea County, New Mexico

Hello Mr. Krawietz and Mr. Petree:

Please let me know who is in charge of the oil and gas regulatory overview of Lea County New Mexico – specifically permitting of disposal wells?

We have discovered the above well will likely need to be re-permitted. If the pertinent person will contact me, I will give additional details.

If no one contacts myself or anyone else in the Engineering and Geological Services Bureau of the Oil Conservation Division in Santa Fe, the matter must be turned over to our compliance attorneys and the well could be shut in with loss of oil production by Samson.

For your convenience, here is contact link: http://www.emnrd.state.nm.us/OCD/AboutUs.htm

Jones, William V., EMNRD

From:

Jones, William V., EMNRD

Sent:

Monday, July 19, 2010 11:39 AM

To:

'Kenneth Krawietz'

Cc:

Sanchez, Daniel J., EMNRD; Gonzales, Elidio L, EMNRD; Brown, Maxey G, EMNRD

Subject:

RE: Disposal application from Samson: State "C" A/C 1 Well No. 3 (30-025-01036) Devonian

Hello Kenneth:

I apologize – you may have sent answers to these questions, or we may have talked? I did get the newspaper notice. You won't believe the number of disposal applications from various operators I have here waiting on further information....

I did check the Rule 5.9 status for Samson and it is getting better but still one well too many are "inactive". Also, Samson needs to send Dorothy Phillips of this office a couple of Single Well Bonds – this should be easy enough, just call Dorothy.

If you folks answer these questions and get the bonds posted and one more well back on, I will be free to issue this permit.

Regards,

Will Jones
New Mexico
Oil Conservation Division
Images Contacts

From: Jones, William V., EMNRD **Sent:** Monday, June 07, 2010 4:54 PM

To: 'Kenneth Krawietz'

Cc: Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD; Sanchez, Daniel J., EMNRD

Subject: Disposal application from Samson: State "C" A/C 1 Well No. 3 (30-025-01036) Devonian

Hello Kenneth and Debbie:

Thank you for sending in this application to allow the packer to be set in the upper Mississippian which is much higher than normally allowed for lower Devonian disposal.

Just a couple questions.

- a. On the deep, non-plugged wells in the AOR (4 wells)
 - a. Please send the cement tops or estimated cement tops.
 - b. Send the completed producing or formerly producing Devonian intervals.
- b. This #3 well appears to be disposing into the lower (originally wet) interval of the Devonian is this true? Are any of the surrounding wells producing from these structural depths?
- c. Have you tried to check PBTD of the well since the packers were left in the hole is this possible to get into the well or otherwise confirm fluid is only entering the Open Hole?
- d. Why did all these packers/etc get left in this hole? Is it simply because of the age of the well?
- e. The Miss is not produced in this area, do you have any facts to support why? What do the logs say? Has it ever been tried? Please discuss a bit.
- f. Please send a plot of Disposed Rate vs Time (monthly or annually) going back several years.
- g. What has been the well's injection pressure trend? Is it still on a vacuum? Send a Hall plot if you have one.

h. Send a copy of the actual Newspaper Notice when it appears in the paper and the date it appears.

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: Debbie Bedingfield [DBEDINGFIELD@samson.com]

Sent: Friday, July 23, 2010 10:08 AM
To: Jones, William V., EMNRD
Cc: Kenneth Krawietz; Gina Saddler

Subject: FW: Disposal application from Samson: State "C" A/C 1 Well No. 3 (30-025-01036)

Devonian

Attachments: State C AC 1 #3 SWD Disposed Rate vs Time.BMP; State C AC 1 #3 Area of Review Table

(2).xls

Mr. Jones, the following is in response to your questions, per your emails dated 6/7/10 and 7/19/10 to Mr. Kenneth Krawietz. Please note, Samson is addressing the bond and "inactive" well issues; responses to be sent under separate cover.

Please contact Mr. Krawietz at (432) 686-6337 x3337 or kkrawietz@samson.com for technical information.

Thank you.

Debbie Bedingfield

'Telephone: (918) 591-1388

Fax: (918) 591-7388

From: Kenneth Krawietz

Sent: Thursday, July 22, 2010 5:42 PM **To:** Gina Saddler; Debbie Bedingfield

Subject: FW: Disposal application from Samson: State "C" A/C 1 Well No. 3 (30-025-01036) Devonian

Here are answers to the questions. Pls let me know what else we need. Thanks.

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Monday, July 19, 2010 12:39 PM

To: Kenneth Krawietz

Cc: Sanchez, Daniel J., EMNRD; Gonzales, Elidio L, EMNRD; Brown, Maxey G, EMNRD

Subject: RE: Disposal application from Samson: State "C" A/C 1 Well No. 3 (30-025-01036) Devonian

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I apologize – you may have sent answers to these questions, or we may have talked? I did get the newspaper notice. You won't believe the number of disposal applications from various operators I have here waiting on further information....

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Cc: Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD; Sanchez, Daniel J., EMNRD

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Just a couple questions.

- a. On the deep, non-plugged wells in the AOR (4 wells) See Attached; Source: OCD Database.)
 - a. Please send the cement tops or estimated cement tops.
 - b. Send the completed producing or formerly producing Devonian intervals.
- b. This #3 well appears to be disposing into the lower (originally wet) interval of the Devonian is this true (Yes)

 Are any of the surrounding wells producing from these structural depths? No, the only Devonian producer in the area is the Samson State C A/C #2 which is completed in the top of the Devonian
- c. Have you tried to check PBTD of the well since the packers were left in the hole is this possible to get into the well or otherwise confirm fluid is only entering the Open Hole? Have not tagged up since 1989 when the first packer was stuck. The last record have from OCD files is a cleanout in 1983 when Sun was the operator. Cannot run survey below the top stuck packer located at 10608. Since the Devonian takes water on a vacuum, this is where the water will go as long as it is on a vacuum.
- d. Why did all these packers/etc-get-left-in-this hole? Is it simply because of the age of the well? These wells have a very bad scale problem. We are not sure why they stuck. Oryx tried to fish the bottom packer and were unsuccessful. Samson did not fish the top packer in 2005. The decision was to set another packer. The engineer at the time is not with Samson anymore and we cannot verify if any verbal approval was obtained. We do not know why packer stuck. We suspect scale buildup since these wells have bad scale problems.
- e. The Miss is not produced in this area, do you have any facts to support why? What do the logs say? Has it ever been tried? Please discuss a bit. The Miss clearly has no porosity or permeability as indicated by open hole logs. It does not produce in the area and there are no records indicating it was even tested. It is clearly tight and not productive.
- f. Please send a plot of Disposed Rate vs Time (monthly or annually) going back several years. See Attached.
- g. What has been the well's injection pressure trend? Is it still on a vacuum? Send a Hall plot if you have one. We do not have a Hall plot. This well takes water on a vacuum. When injecting it may have 130 psi which is just tubing friction pressure.
- h. Send a copy of the actual Newspaper Notice when it appears in the paper and the date it appears.

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



	Injection Permit Checklist (03/15/2010)
	Case R (SWD 1246 WFX PMX IPI Permit Date 2815 VIC Qtr
	# Wells Well Name: State A/c1 #3
	API Num: (30-) 025-01036 Spud Date: 4354 New/Old (UIC primacy March 7, 1982)
	Footages 1980 FSL/660 FWL Unit LSec 2 TSp 125 Rge 33 E County Low
	Operator: Songon Rossurcas Company Contact Konneth Krawiety Jobbie
	Al Obalingtie
	OGRID RULE 5.9 Compliance (Wells) (Finan Assur) IS 5.9 OK?
	Operator Address: Two Wast Sacard Strast, Tulsa, 0/74103-3103
	Current Status: See R-6646 Deloni in 198)
	Blanced Work to Walk & F- Pormit Walk Duly Blanced Tubin Sin David 27/8 @ 10380
	Planned Work to Well: Planned Tubing Size/Depth: 2/8 10,38 Sizes Setting Cement Cement Top and Determination
	HolePipe Depths Sx or Cf Method
	Existing V Surface 17 1338 324 350 CIRC
	Existing Intermediate 1217 978 3874 2700 Surf. Existing Long String 8 8 5 12 11/034 2000 5 July 1980 TS, THON
	Existing
LE D	Well File Reviewed
122	Diagrams: Before Conversion After Conversion Elogs in Imaging File:
July Tolk	Intervals: Depths Fermation Producing (Yes/No) GENERAL LOCATION
Moderation	Above (Name and Top) - 15336 - MISSTEP Not Product Plants Page 15848 - Days Top)
01)	Above (Name and Top) 10848 Par ToP.
	Interval TOP: 103TV PART OFF - WE LEWE PROPERTY MAX. WHIP
,	Interval BOTTOM: 11379 O.H. & TD Cour Dec, You Open Hole (Y/N)
. An	Below (Name and Top)
FIII o	Sensitive Areas: Capitan Reef Cliff House Salt Depths 1685
	Retash Area (R-TH-P) Potash Lessee Noticed?
	Fresh Water: Depths: 0-1700 Wells yes Analysis? WAffirmative Statement
	Disposal Fluid Sources: Dav / Spring Day Analysis?
	Disposal Interval Production Potential/Testing/Analysis:
	Sispersi maria i radici
\$11	Notice: Newspaper(Y/N) Surface Owner 5 LO - Mineral Owner(s)
	RULE 26.7(A) Affected Parties:
	ROLE 20.7(A) Affected Parties: What A Section 1.
	Area of Review: Adequate Map (Y/N) and Well List (Y/N)
	Active Wells 4 Num Repairs 6 Producing in Injection Interval in AOR 10 10 10 10 10 10 10 10 10 10 10 10 10
10	P&A Wells 3 Num Repairs O All Wellbore Diagrams Included?
	Questions/Required Work:
	CAT/CAT TOPS on ACTUR well in AOR + ACTIVO Buffs From
	AD - 10380 - 1370 (MISS + DEV)
	Active Wells Houm Repairs O Producing in Injection Interval in AOR No. P&A Wells Num Repairs O All Wellbore Diagrams Included? Questions/Required Work: CIAT CWT Tol'S on ACTIVE wells in AOR + ACTIVE Performs AD - 10380 - 11370 - MISS + DEN FMS Mod in AOR - 10380 - 11370 - MISS + DEN PISCUM MISS Modulus Request Sent Reply: Request Sent Reply:
	Now Effat of City on Per-Off Request Sent Reply:
	I) ()
3/15/2010	Request SentReply: