# Additional

## Information

Updated application packet 7/26/21

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 X Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: Redwood Operating LLC
	ADDRESS: PO Box 1370, Artesia, NM 88211-1370
	CONTACT PARTY: Jerry W Sherrell PHONE: 575-748-1288
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:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>
*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: Jerry W Sherrell TITLE: Production Supervisor
	SIGNATURE: DATE: 7/26/2021
	E-MAIL ADDRÉSS: jerrys@mec.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: _6/2/2019

### 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.

## INJECTION WELL DATA SHEET

LL LOCATION:660 FNL 600 FWL	D	13	18S	27E
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
<u>WELLBORE SCHEMATIC</u>		WELL CO Surface (	ONSTRUCTION DAT Casing	<u> </u>
	Hole Size:17 1	/2"	Casing Size:_13 3/8	3"_@ 300'
	Cemented with: _350	)sx.	or	
	Top of Cement: _Sur	face	Method Determined	d: _Circ
		<u>Intermediat</u>	e Casing	
	Hole Size:12 1/4	ļu	Casing Size:9 5/8	3"_@ 2800'
	Cemented with: _850	)sx.	or	
	Top of Cement:Su	urface	Method Determined	d: _Circ
		Production	Casing	
	Hole Size:8 3	/4"	Casing Size:7"_	@ 7650'
Liner 6 1/8" hole drilled to 8800' 4 1/2" from 7450-8800'	Cemented with: _100	00sx.	or	
Cement with 100sx	Top of Cement: _Sur	face	Method Determined	l: _Circ
Top of Cement @ 7450	Total Depth:			
		Injection I	nterval	
	7650	feet	to 8800	

## INJECTION WELL DATA SHEET

Tuł	oing Size:4 1/2"Lining Material:IPC
Тур	be of Packer:AS-A
Pac	ker Setting Depth:7450'
Oth	er Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection?X_YesNo
	If no, for what purpose was the well originally drilled?
2.	Name of the Injection Formation: _Cisco, Canyon
3.	Name of Field or Pool (if applicable):
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) usedNo
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed
	injection zone in this area:Overlying-Wolfcamp, Underlying-Strawn

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IIV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

1 API Number

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

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

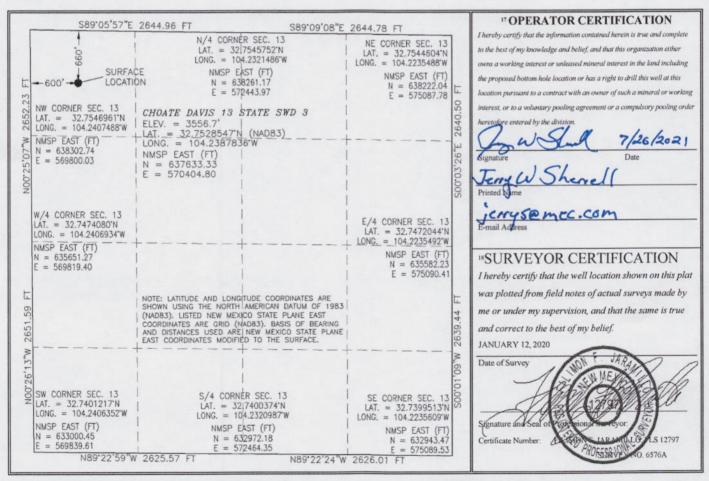
☐ AMENDED REPORT

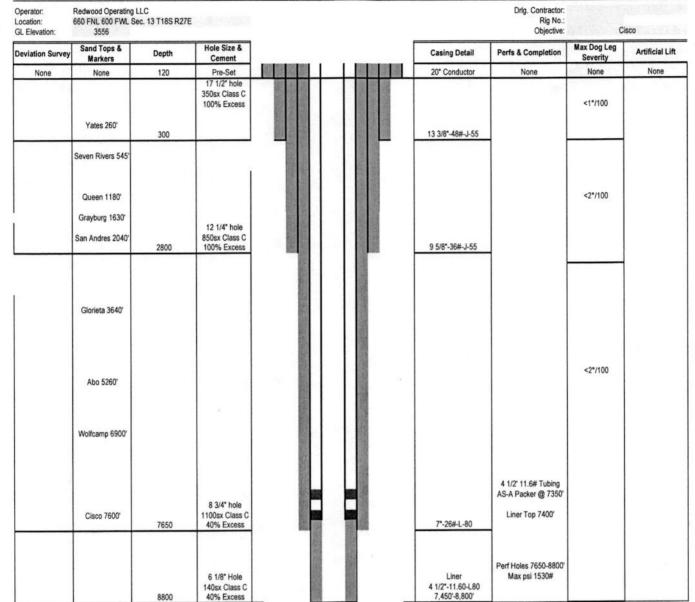
WELL LOCATION AND ACREAGE DEDICATION PLAT

32937	Code	5444		СНО	<sup>5</sup> Property ATE DAVIS 1	Name 3 STATE SWD		المحادث المحاد	Well Number
<sup>7</sup> OGRID 33021				8 Operator Name REDWOOD OPERATING, LLC.				<sup>9</sup> Elevation 3556.7	
					10 Surfac	e Location			
UL or lot no.	Section 13	Township 18 S	Range 27 E	Lot Idn	Feet from the	North/South line NORTH	Feet from the	East/West line WEST	County EDDY

		100	11 ]	Bottom H	lole Location	If Different Fr	om Surface		
UL or lot no. D	Section 13	Township 18 S	Range 27 E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 600	East/West line WEST	County EDDY
<sup>12</sup> Dedicated Acre	<sup>13</sup> Joint	or Infill	14 Consolidatio	n Code			15 Order No.		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





8800

Strawn 8920



July 26, 2021

## VIA CERTIFIED MAIL 7019 1640 0002 0377 9129

Commissioner of Public Lands PO Box 1148 Santa Fe, NM 87504

Dear Sir or Madam:

Enclosed for your review, is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 7650-8800'. The Choate Davis 13 State SWD #3 located 660 FNL & 600 FWL, Sec. 13 T18S R27E, Eddy County.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to drill and complete this well as a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell Regulatory Supervisor

JWSI

## Surface- 17 ½" hole 300' 13 3/8" 48# J-55

nStage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry Top
Lead							
Tail	Class C+1%PF1	14.8	1.34	6.307	350	100	Surface

Comments	ents 20bbls Gel Spacer.			
	50 sacks of 11# Scavenger	per Lin		
	cement.	/Ft 208		

## Intermediate- 12 ¼" hole 2,800' 9 5/8"-36#-J-55

Stage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry Top
Lead	Class C +4%PF20+1% PF1+0.125#/skPF29+.4%PF 45	13.5	1.72	9.102	500	100	Surface
Tail	Class C+.1%PF1	14.8	1.34	6.307	350	50	1,800'

Comments		
		Cu/Ft
		per
	20bbls Gel Spacer.	lin/Ft
	50 sacks of 11# Scavenger	876.96
	cement.	

## 2nd Intermediate-7,650 7"-26#-L-80

Stage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry
Lead	35/65 Perlite/C 5% PF44+6%PF20+.2%PF13+3ppsPF 42+.4ppsPF45+.125ppsPF29	12.9	1.82	9.21	225	35	Surface
Tail	PVL+1.3%PF44(BWOW)+5%PF1 74+.5%PF506+0.1%PF153+.4#PF 45	13	1.48	7.57	775	35	2,000′
Comments	20hbls Gel Spacer						

## Choate Davis 13 State SWD #3

50 sacks of 11# Scavenger	Cu/Ft
cement.	per
	lin/Ft
	976.95

## Production Liner 4 1/2"-11.60#-L-80 LT&C 8,800'-7,450'

Tail	PVL+1.3%PF44(BWOW)+5%PF1 74+.5%PF506+0.1%PF153+.4#PF 45	13	1.48	7.57	100	35	7,450
Comments	20bbls Gel Spacer. 50 sacks of 11# Scavenger cement.	Cu/Ft per lin/Ft 110.71					

Prior to any cement job it is Redwood policy to circulate bottoms up 1 time before commencing with cement operations. On wells where hole conditions have been an issue during the drilling and reaming process the number or circulations needs to increase to a minimum of 2 times around.

All production cement figured with an additional 10% for washout unless otherwise noted. Flush is figured with a 40′ shoe joint. Do not displace more than 2bbls over calculated flush without prior approval.

String Size & Function	n: <u>13 3/8</u>	in surface		intermediate		
Total Depth:	300 ft					
Pressure Gradient fo	r Calculations	<del></del>	(While drilling)			
Mud weight, collapse	: <b>9.</b> 6	#/gal	Safety Factor Collap	se: <b>1.12</b> 5	<u>.</u>	
Mud weight, burst:	9.6	#/gal	Safety Factor Burst	: 125		
Mud weight for joint	strength: 9,6	#/gal Safet	ty Factor Joint Strengt	th 1.8		
BHP @ TD for:	collapse: 149.76	psi Burs'	t: <u>149.76</u> psi, j	oint strength:	149.76	psi
Partially evacuated h	ole? Pressure gi	radient remaining:	<u>10</u> #/gal	_		
Max. Shut in surface	pressure:	500 psi				
1st segment	300 ft to	<u>0</u> ft	Make up Toro	que ft-lbs	Total ft =	300
O.D. 13.375 inches	Weight 48 #/ft	Grade Threads	opt. mjn. 3,220 2,4	mx. 20 4,030		
Collapse Resistance	Internal Yield 2,370 psi	Joint Strength	Body Yield 744 ,000 #	Drift 12 559		
2nd segment	0 ft to	0 ft	Make up Tord	rue ft-lhs	Total ft =	0
O.D.	Weight	Grade Threads	opt. min.	mx,	TOTAL IL	
inches Collapse Resistance psi	#/ft Internal Yield psi	Joint Strength ,000 #	Body Yield # 000,	Drift [		
3rd segment	O ft to	0 ft	Make up Tor	•	Total ft =	0
O.D. Inches	Weight #/ft	Grade Threads	opt. min.	mx.		
Collapse Resistance psi	Internal Yield psi	Joint Strength ,000 #	Body Yield ,000 #	Drift		
4th segment	0 ft to	0 ft	Make up Toro	que ft-lbs	Total ft =	0
O.D. inches	Weight #/ft	Grade Threads	opt. min.	mx.		
Collapse Resistance psi	Internal Yield psi	Joint Strength ,000 #	Body Yield ,000 #	Drift		
5th segment	O ft to	O ft	Make up Tore	•	Total ft =	0
O.D. inches	Weight #/ft	Grade Threads	opt. min.	mx.		
Collapse Resistance	Internal Yield psi	Joint Strength ,000 #	Body Yield ,000 #	Drift.		
6th segment O.D.	0 ft to	0 ft Grade Threads	Make up Tord	<del></del>	Total ft =	0
inches	Weight #/ft		opt. min.	mx.		
Collapse Resistance	Internal Yield psi	Joint Strength ,000 #	Body Yield ,000 #	Drift		
Select 1st segme	ent bottom	30	0 S.F.	Actual		Desire
300 ft to 13.375 36	0 ft 3 J-55 ST&C		collapse burst-b burst-t	4.941239 4.681574 4.74		1.125 1.25
	Top of segment 1 (ft) ent from bottom			Actual e #DIV/0!	>= >=	Desire 1.125 1.25
Oft to	O ft		burst-t	0		
0	0 0		jnt strng	th 35.24644	>=	1.8

Choate Davis 13 State SWD #3

Casing Design

Well:

Casing Design	Well:	Choate Davis 13 State SWD #3							
String Size & Function	n:	9	5/8 in	surface		<u>.</u>	ntermediate	X	
Total Depth:	280	<u>ĝ</u> ft		TVD:		280	<u>r</u> ft		
Pressure Gradient fo	r Calculatio	ns			(While dri	lling)			
Mud weight, collapse	:		10 #/gal		Safety Facto	or Collapse	1 125		
Mud weight, burst:			10 #/gal		Safety Fac	tor Burst:	1.25		
Mud weight for joint	strength:		10 #/gal	Safet	y Factor Join	t Strength	1.8		
BHP @ TD for:	collapse:	1	456 psi	Burst	1456	psi, joir	nt strength:	1456	psī
					-	<u>.</u>			
Partially evacuated h		Pressu	re gradient re		10	#/gal			
Max. Shut in surface	pressure:		<u>                                     </u>	00 psi	_				
4-1	400	2.0 4-			<b>.</b>	_	e 11	<u> </u>	
O.D.		ight	Grade	0 ft Threads	opt.	e up Torque min.	mx.	Total ft =	1230
9.625 inches Collapse Resistance	Interr	#/ft al Yield		Strength		2,960 Yield	Drift		
2.020 psi	3,520	psi	3	94 ,000 #	564	,000 #	8.765		
2nd segment		ft to	ı	ft	T Mak	e up Torqu	e ft-lbs	Total ft =	o
O.D. Inches	We	ight #/ft	Grade	Threads	opt.	min.	mx.		
Collapse Resistance		nal Yield psi	Joint	Strength ,000 #		Yield ,000 #	Drift Friedrich		
psi		;; psi		<u>:::::</u> ,000 #		# 000,			
3rd segment		0 ft to		0 ft	Mak	e up Torqu	e ft-lbs	Total ft =	O)
O.D. inches		ight #/ft	Grade	Threads	opt.	min.	mx.		
Collapse Resistance		nal Yield		Strength ,000 #		Yield ,000 #	Drift		
Althorn Alexander V	***************************************	,; F 3.	1000000000000	,,,,,	**************	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	74741474747474747474		
4th segment		oft to		0 ft		e up Torqu		Total ft =	0
O.D. Inches		ight #/ft	Grade	Threads	opt.	min.	mx.		
Collapse Resistance psi	Interr	ıal Yield psi		Strength ,000#		Yield ,000 #	Drift		
5th segment O.D.		oft to ight	Grade	0 ft Threads	Make	e up Torqu min.	e ft-lbs mx.	Total ft =	0
inches		#/ft							
Collapse Resistance psi	inten	psi		Strength ,000 #	Bouly	Yield ,000 #	Drift		
<b></b> .					<b>.</b>	_			
6th segment O.D.	We	Oft to light	Grade	0 ft Threads	opt.	e up Torqu min.	e ft-lbs mx.	Total ft =	0
Collapse Resistance		#/ft nat Yield	Joint	Strength	Body	Yield	Drift	İ	
psi		psi		,000#				l	
Select 1st segme	ent bottom			123	0	S.F.	Actual		Desire
2800 ft to		D ft	$\neg$			collapse burst-b	1.387363 7.04	>= >=	1.125 1.25
9.625	Top of seg	ST&C gment 1	(ft)			burst-t S.F.	7,04 Actual		Desire
Select 2nd segm	ent from bo	ttom				collapse burst-b	#D1V/01 0	>= >=	1.125 1.25
0 ft to		D ft D	0			burst-t jnt strigth	0 4.614794	>=	1.8
							_		

Casing Design	Well: Ch	oate Da	vis 23 State SWD#	3		<u>ii</u>		
String Size & Function	u <u> </u>	<b></b>	in surfac	e <u>                                     </u>	i	ntermediate	<b>X</b>	
Total Depth:	7650 ft							
Pressure Gradient for	Calculations			(While	drilling)			
Mud weight, collapse:		10.8	#/gal	Safety Fa	ctor Collapse:	1 125		
Mud weight, <u>burst</u> :			#/gal	Safety F	actor Burst:	1 25		
Mud weight for joint s	trength:	10.3	#/gal S	afety Factor J	oint Strength	18		
BHP @ TD for:	collapse:	4097.34	_psi B	urst: 4097	. <u>34</u> psi, join	it strength:	4097.34	psi
Partially evacuated h	ole? Pre	essure g	radient remaining:		10 #/ga1			
Max. Shut in surface	pressure:		500 psi					
1st segment	7650 ft	to	O ft	_ м	ake up Torque	e ft-lbs	Total ft =	7650
O.D. 7 Inches	Weight		Grade Thres	ds opt.	mīn.	mx. 6390		
Collapse Resistance	26 #/fi Internal Y		L+80 LT& Joint Strength		3830 dy Yield	6390 Drift		
5,410 psi	7,240 psi		511 ,000 #		,000#	6.151		
2nd segment	Oft	to	0 ft	— м	ake up Torque	e ft-lbs	Total ft =	C
O.D. inches	Weight	·	Grade Threa		min.	mx.		
Collapse Resistance	Internal Y	eid	Joint Strength	**********	dy Yield ,000#	Drift		
				_				
3rd segment Q.D.	0 ft Weight	to	0 ft Grade Threa		ake up Torque min.	e ft-lbs mx.	Total ft =	
inches Collapse Resistance	##fi		Joint Strength		dy Yield	Drift		
psi	psi		,000,		,000#			
4th segment	O ft	to	O ft	_ м	ake up Torqui	e ft-lbs	Total ft =	
O.D. Inches	Weight	ł	Grade Threa		min.	mx.	-	
Collapse Resistance	Internal Yi	eld	Joint Strength		dy Yield ,000#	Drift		
	<b>*</b>	_			33.5	17212522212121212121		
5th segment O.D.	0 ft Weight	to	0 ft Grade Threa		ake up Torqui	e ft-lbs mx.	Tota! ft =	0
inches	#/6	ì						
Collapse Resistance psi	Internal Yi psi		Joint Strength ,000 #		dy Yield ,000 #	Drift		
Chla a a amand		40		<u> </u>	aka Ta	- # 1b	Tatal 8 -	
6th segment O.D.	0 ft Weight	to	0 ft Grade Threa		ake up Torqu min.	eπ-ids mx.	Total ft =	C
Inches Collapse Resistance	#/fl Internal Y		Joint Strength	Bo	dy Yield	Drift		
psi	psi		,000 #		,000#			
Select 1st segment bottom				7650	S.F. collapse	Actual 1.320369	>=	Desire 1.125
7650 ft to	0 ft ) L-80 LT-	&C	]		burst-b burst-t	19.0196 14.48	>=	1.25
	Top of segmen	ot 1 (ft)		10	S.F.	Actual		Desire
Select 2nd segme	ent from bottom		_		coliapse burst-b	#DIV/0! 0	>= >=	1.125 1.25
0 ft to	Oft O	0			burst-t	0 3.049739	>=	1.8
	. 0	_0	'1		jnt strngth	3.049/39	<i>&gt;=</i>	1.0

Casing Design	Well:	Choate	Davis 13 Stat	ė SWD #3			<u> </u>		
String Size & Function	n:	41/2 in Production							
Total Depth:	088	<u>Ç</u> ft		TVD:		8800	ft		
Pressure Gradient fo	r Calculatio	ns	_	_	(While dril	ling)			
Mud weight, collapse	:	<u> </u>	1 4 #/gal		Safety Facto	r Collapse:	1,125		
Mud weight, burst:			14 #/gal		Safety Fact	or Burst:	125		
Mud weight for joint	strength:		1.4 #/gal	Safet	/ Factor Join	t Strength	13		
BHP @ TD for:	collapse:	5216	<u>.64</u> psi	Burst	5216.64	psi, join	t strength:	5216.64 <sub> </sub>	psi
Partially evacuated h	ole?	Pressur	e gradient rei	maining:	to	#/gal			
Max. Shut in surface	pressure:		300	O psi	<u> </u>				
1st segment	880	Oft to	745	iO ft	] Make	e up Torque	ft-ibs	Total ft =	1350
O.D.	<ul> <li>Bitatiatiatiatiatiatiatiat</li> </ul>	eight 6 #/ft	Grade	Threads	opt.	min. 1670	mx. 2790		
Collapse Resistance 6,350		nal Yield	Joint 9	Strength 2 ,000 #	Body		Drift 3,875		
			_		_				
2nd segment O.D.	We	ft to eight	Grade	ft Threads	Make opt.	up Torque min.	ft-lbs mx.	Total ft =	
Inches Collapse Resistance		##tt nal Yield	Joint 5	Strength	Body	Yield	Drift		
psi		psi	************	,000#		,000#		ļ	
3rd comment		9 10			1 Make	o era Tarane	# The	Total # -	
O.D.	一郎 マチェト・トット・・・トット・ト	ft to eight	Grade	ft Threads	opt.	e up Torque min.	mx.	Total ft =	
inches Collapse Resistance		#/ft nal Yield	Joint :	Strength	Body		Drift		
psi		psi		,000#		,000#			
4th segment		Oft to		O ft	] Make	e up Torque	e ft-lbs	Total ft =	0
O.D.	Br. r. r	eight #/ft	Grade	Threads	opt.	min,	mx.		
Collapse Resistance	Interr	nal Yield	Joint :	Strength	Body		Drift		
psi		psi		,000#		,000#		1	
5th segment		0 ft to		O ft	Make	e up Torque	ft-lbs	Total ft =	0
O.D. inches		ight #/ft	Grade	Threads	opt.	min.	mx.		
Collapse Resistance		nal Yield		Strength ,000#	Body	Yield ,000#	Drift	]	
	***************************************	9: <b>p</b> .c.	PROGRAMO	991000 n	<u>Linearing and a</u>	1444	100000000000000000000000000000000000000	1	
6th segment		0 ft to		0 ft	•	e up Torque		Total ft =	0
O.D. Inches	We	ight #/ft	Grade	Threads	opt.	min.	mx.		
Collapse Resistance psi	Inter	nal Yield psi	14040404040404040404	Strength ,000 #	Body		Drift		
					*	<del></del>		•	
				_		_			
Select 1st segme	ent bottom			8800	}	S.F. collapse	Actual 1.217259	>=	Desire 1.125
8800 ft to 4.5 26	745 6 L-80	0 ft LT&C	$\neg$			burst-b burst-t	3.297504 3.165639	>=	1.25
	Top of se	gment 1	(ft)	745		S.F.	Actual	>=	Desire
			<del></del>			collapse burst-b	#DIV/0! 0	>=	1.125 1.25
7450 ft to		0 ft 0	0			burst-t jnt strngth	0 16.39778	>=	1.8