

## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON** 

Governor
Betty Rivera
Cabinet Secretary

July 12, 2002

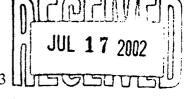
Lori Wrotenbery
Director
Oil Conservation Division

Mr. Robert C. Chase Mack Energy Corporation PO Box 960 Artesia, New Mexico 88211

Re:

Administrative Application for SWD: Beech Federal Well No. 3

Section 25, T17S, R27E, NMPM, Eddy County, New Mexico.



Dear Mr. Chase:

The division received your application June 14, 2002 and after evaluation, the following information is needed to complete the order:

- 1) Explanation of the water analysis included in this application. What formations do they represent and why do some have very low pH?
- 2) Please include in the application a photocopy of the mud log and electric logs through the Abo interval being proposed for injection.
- 3) A summary of the drill reports and completion reports for this well.
- 4) A current annotated well bore diagram including all perforations existing in the well.
- 5) The No Bluff 36 St Com #002 API: 30-015-31123 is located within the Area of Review and has a cement top as calculated by the operator Southwest Energy Production Company at 7,350 feet. Please provide a plan for resolving this issue.

Pending receipt of this information and since our 30-day limit for pending applications is approaching, your application is being returned. If I can be of further assistance, please call (505) 476-3448.

Sincerely,

William V Jonés Jr. PE

cc: Oil Conservation Division - Artesia
Bureau of Land Management - Carlsbad

Oil Conservation Division \* 1220 South St. Francis Drive \* Santa Fe, New Mexico 87505 Phone: (505) 476-3440 \* Fax (505) 476-3462 \* <a href="http://www.emnrd.state.nm.us">http://www.emnrd.state.nm.us</a>

## HOLLAND & HART LLP

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William F. Carr

wcarr@hollandhart.com

June 14, 2002

#### **HAND-DELIVERED**

Lori Wrotenbery, Director Oil Conservation Division New Mexico Department of Energy, Minerals and Natural Resources 1220 South Saint Francis Drive Santa Fe, New Mexico 87505

(30-015-32036)

Re: Application of Mack Energy Corporation for administrative approval of salt water disposal in its Beech Federal Well No. 3 located 330 feet from the South line and 1775 feet from the East line of Section 25, Township 17 South, Range 27 East, NMPM, Eddy County, New Mexico.

Dear Ms. Wrotenbery:

Enclosed for filing is the original and one copy of the application of Mack Energy Corporation in the above-referenced matter. By copy of this letter, the application is also being filed with the Division's District Office in Artesia, New Mexico.

As you will see from the enclosed copies of notice letters, on this date the application was provided to all offset operators and the owner of the surface of the land on which the well is located in accordance with Division rules. Each of these owners was advised that if they have objections to the application, they have fifteen days within which to notify the Division's Santa Fe office.

The legal advertisement for this application was run in the Artesia Daily Press On June 14, 2002. The Proof of Publication is enclosed with the application.

Your attention to this matter is appreciated.

William F. Carr

cc: Oil Conservation Division (with enclosure)
District II
1301 West Grand Avenue
Artesia, New Mexico 88210

Ron Lanning
Mack Energy Corporation
Post Office Box 960
Artesia, New Mexico 88211-0960

MACK Every Boxels Fel #3

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30-015-00689 GATE	GATES St #001	C E LARUE & B M MI 1650N 330E H	1650N 330E H	36 17S 27E S	O YATES SEVEN RIVERS	ACTIVE		0	0	o	3292	0
30-015-31036 GATE	GATES St #003	C E LARUE & B M ML2310N 990E	2310N 990E H	36.17S 27E S	O EMPIRE YESO SEVEN RIVERS	IVERS	EMPIRE, YATES-SEVEN RIVERS	0	50	29	3292	22230
30-015-00578 BERRY B#025	₹Ŷ B #025	SDX	1650N 1650E G	25 17S 27E F	O SAN ANDRES	ACTIVE	RED LAKE On-Gbg-SA	22	0	0	20451	51300
30-015-31790 BEEC	BEECH Fed #002	MACK CORP	1650S 1650E J	25 17S 27E F	O LOGAN DRAW WOLFCAMP	MP	LOGAN DRAW WOLFCAMP (O)	29986	3997	46	13837	09696
30-015-32299 ENRON Fed #005	ON Fed #005	XOS	1800S 2310E J	25 17S 27E F	O RED LAKE Q-G-SA	NO COMPL		0		oF	20451	01
30-015-24092   SPRUCE Fed #001	JCE Fed #001	MACK	1650S 2310W K	25,17S 27E F	G ABO	ACTIVE	LOGAN DRAW WOLFCAMP (O)	99629	6063	46	13837	09696
30-015-32069 FIR Fed #001	ed #001	MACK	1770S 990W L	25 17S 27E F	O LOGAN DRAW WOLFCAMP	MP	LOGAN DRAW WOLFCAMP (O)	4932	3045	6	13837	09696
30-015-30812 BEECH Fed #001	CH Fed #001	MACK CORP	330S 940W M	25'17S 27E F	O WOLFCAMP	ACTIVE	RED LAKE; GLORIETA YESO, N EAST	854	400	3659	13837	96836
30-015-00525   BRAINARD #002	NARD #002	PRONGHORN	330S 2310W N	25 17S 27E F	0	ACTIVE	EMPIRE, YATES-SEVEN RIVERS	o ·	-	ō*	122811	22230
30-015-32037 BEECH Fed #004	CH Fed #004	MACK CORP	455S 2060W N	25, 17S , 27E   F	O LOGAN DRAW WOLFCAMP	MP ; NO COMPL		·	<del></del>	o	13837	0
30-015-32300 ENRC	ENRON Fed #006	XOS	990S 2310W N	25 17S 27E F	O RED LAKE Q-G-SA	NO COMPL		··· o··		ō	20451	o.
30-015-32036 BEECH Fed #003	CH Fed #003	MACK CORP	330S 1775E O	25 17S 27E F	O LOGAN DRAW WOLFCAMP	MP NO COMPL				0	13837	0
30-015-32163 ENRON Fed #003	ON Fed #003	XQS	990S 1650E O	25 17S 27E F	O RED LAKE Q-G-SA	ACTIVE			o <sup></sup>	ò	20451	0
30-015-31283 RESL	RESLER St #001	SDX	330S 990E P	25 17S 27E S	O RED LAKE-QN-GB-SA	ACTIVE	RED LAKE, GLORIETA YESO, N EAST	1807	1055	2759	20451	96836
30-015-00692 St B #001	#001	W E JEFFERS	980N 2300E B	36 17S 27E S	0	ACTIVE		- <del>'</del> o'-	0	0	24304	0
30-015-31541 JEFFE	JEFFERS 36 St #003	XOS	460N 1650E B	36 17S 27E S	O RED LAKE Q-G-SA	NO COMPL		-0	0	ō	20451	0

API NAME	In Short Creater		Se Land	Well Ord FORM for NOTES	D&A Date	STATIIS	I state of the control of the contro	GAS2002 OII 2007 WAT2002	2002 WA		10045000 CIREO	i O O d
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30-015-00651 DELHI#005	PRONGHORN	990N 1650W C	36,17S,27E,S		ACT	ACTIVE EN	EMPIRE, YATES-SEVEN RIVERS	0.	50.	5	122811	23730
30-015-00653 S RED LAKE Gbg UNIT #001	1 MCQUADRANGLE	660N 1650W C	36 175 27E S	. 0.	ACT	ACTIVE	RED LAKE On-Gbg-SA	0	357	2211 1	185130	51300
30-015-00691 DELHI#006	PRONGHORN	990N 2310E C	36 17S 27E S	O_	ACTIVE	 IVE			0	~5*=	122811	0
30-015-23358 DELHI#008	PRONGHORN	369N 2293W C	36 175 27E S		ACT	ACTIVE		···•	0,	- 6	122811	0
30-015-30907 NO BLUFF SI COM #001	z SWERN	G W098 N099	36 17S 27E S	G NILLINOIS CAMP MORROW		ACTIVE ILL	ILLINOIS CAMP.MORROW, N (GAS)	21153	122	24 € 1	148111	78890
30-015-00652 S RED LAKE Gbg UNIT #008	B MCQUADRANGLE	1650N 330W E	36 17S 27E S	- - <del>-</del> .	ACT	ACTIVE	RED LAKE:Qn-Gbg-SA	- '0'	0		185130	51300
30-015-00657 MAGRUDER St #001	NXN	2310N 330W E	36 17S 27E S	0	2000-04-04 ZON	ZONE ABAN		0	<u>-</u> -	0	163645	0
30-015-00658 S RED LAKE Gbg UNIT #013	3 MCQUADRANGLE	2310N 990W E	36 17S 27E S		SHC	SHUT IN RE	RED LAKE:Qn-Gbg-SA		0	220	185130	51300
30-015-00660 S RED LAKE Gbg UNIT #012	2 MCQUADRANGLE	2310N 1650W F	36 17S 27E S		ACT	ACTIVE RE	RED LAKE, Qn-Gbg-SA			1152 1	185130	51300
30-015-00663 ACREY #002	PRONGHORN	1650N 1655W F	36 17S 27E S	o_	∩HS.	SHUT IN	,	0	0-		122811	0
30-015-00664 S RED LAKE GBg UNIT #009	9 MCQUADRANGLE	1650N 1650W F	36 17S 27E S		ACT	ACTIVE	RED LAKE Qn-Gbg-SA	0	0	- 5	185130	51300
30-015-00665 ACREY #003Y	PRONGHORN	2260N 1650W F	36 17S 27E S	0	ACT	ACTIVE EN	EMPIRE, YATES-SEVEN RIVERS	0		0	122811	22230
30-015-25670 ACREY #005	PRONGHORN	1650N 2310W F	36 17S 27E S	O <sub>j</sub>	ACT	ACTIVE EN	EMPIRE; YATES-SEVEN RIVERS	- o-	-	0	122811	22230
30-015-25969 S RED LAKE Gbg UNIT #047	7 MCQUADRANGLE	1980N 2310W F	36 17S 27E S	· · · · · · · · · · · · · · · · · · ·	SF.	SHUT IN RE	RED LAKE On-Gbg-SA	0	893	2284 1	185130	51300
30-015-00667 S RED LAKE Gbg UNIT #011	1 MCQUADRANGLE	2310N 2310E G	36 17S 27E S	·· <b>-</b>	ACT	ACTIVE RE	RED LAKE On-Gbg.SA	0		0	185130	51300
30-015-00668 SREDLAKE GBg UNIT #010	D MCQUADRANGLE	1650N 2310E G	36 17S 27E S	0	SHL	SHUT IN RE	RED LAKE;Qn-Gbg-SA	-0	207	14128 1	185130	51300
30-015-00690   CONKLIN #002	PRONGHORN	1830N 2205E G	36 17S 27E S		ACT	ACTIVE	EMPIRE: YATES-SEVEN RIVERS	0		- 6	122811	22230
30-015-31123 NO BLUFF 36 St COM #002	SWERN	1980N 760E H	36 175 27E S	G WILDCAT MISSISSIPPIAN	ACT	ACTIVE   ILL	ILLINOIS CAMP, MORROW, N (GAS)	999	<b>o</b> .	0	148111	78890
30-015-00647   GATES St #002	C E LARUE & B M Mt 1650N	( 1650N 990E H	36 17S 27E S	0	. HS	SHUT IN			0.	0	3292	0
			  -						٠	<del>-,</del>		
									-		-	_
30-015-31289 STALEY St #006	XOS	2010S 990W 3	30,17S 28E S	O RED LAKE-QN-GB-SA	ON.	NO COMPL		0	-0	0	20451;	0
30-015-01633 ASTON & FAIR A #001	PRONGHORN	330N 330W 1	31 17S   28E   S	OWILDCAT	JHS.	SHUTIN	:	· · · · ·	0	-5	122811	0
30-015-02666 HUDSON SAIKIN St #001	MACK	2310N 330W 2	31,17S, 28E, S	0	ACT.	ACTIVE RE	RED LAKE;Qn-Gbg-SA	- o	26	··· 6	13837	51300
30-015-24887 HUDSON SAIKIN St #002	MACK	2310N 990W 2	31 17S 28E S	0	ACT	ACTIVE RE	RED LAKE On-Gbg-SA	0	9		13837	51300
30-015-32162 ENRON St #004	XOS	460N 990W D	31 17S 28E S	O RED LAKE Q-G-SA	ON	NO COMPL		0	0	0	20451	0

## HOLLAND & HART LLP ATTORNEYS AT LAW

DENVER · ASPEN
BOULDER · COLORADO SPRINGS
DENVER TECH CENTER
BILLINGS · BOISE
CHEYENNE · JACKSON HOLE
SALT LAKE CITY · SANTA FE
WASHINGTON, D.C.

P.O. BOX 2208 SANTA FE, NEW MEXICO 87504-2208 110 NORTH GUADALUPE, SUITE 1 SANTA FE, NEW MEXICO 87501-6525 TELEPHONE (505) 988-4421 FACSIMILE (505) 983-6043

William F. Carr

wcarr@holiandhart.com

June 14, 2002

#### <u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Marbob Energy Corporation Post Office Box 227 324 W. Main Street #103 Artesia, New Mexico 88211-0227

Re: Application of Mack Energy Corporation for administrative approval of

salt water disposal, Eddy County, New Mexico.

#### Ladies and Gentlemen:

This letter is to advise you that Mack Energy Corporation has filed the enclosed application with the New Mexico Oil Conservation Division seeking authorization to dispose of produced water in its Beech Federal Well No. 3 located 330 feet from the South line and 1775 feet from the East line of Section 25, Township 17 South, Range 27 East, NMPM, Eddy County, New Mexico. Mack Energy Corporation proposes to inject into the lower Abo formation through an injection interval of 6450 feet to 6594 feet. The initial maximum surface injection pressure proposed by Mack Energy corporation is 100 pounds and the maximum daily injection rate will be 1500 barrels of water.

If you have questions concerning this application, you may contact Ron Lanning at Mack Energy Corporation, Post Office Box 960, Artesia, New Mexico 88211-0960, telephone number (505) 748-1288.

Objections to this application or requests for hearing must be filed with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505 within 15 days of the date of this letter.

William F. Carr

Attorney for Mack Energy Corporation

Enclosures

; 1 of 1 Page

: 06/12/2002 10:08 Printed Order Number : 11104423

PO Number

: 10887482 - Holland & Hart and Campbell & Customer

Contact Address1

: P.O. Box 2208 Address2

City Phone Fax

: Santa Fe, NM 87501-6525

: (505) 988-4421

Category First Pub

: 11104424

Publication : Artesia Daily Press : LEGAL NOTICE : 06/14/2002

Last Pub : 06/14/2002 Days : 1

Ad Number

Siza : 1 x 6.68, 54 lines Ad Rate : open

Ad Price 25.26 25.26 Order Price Amount Paid 0.00 Amount Due 25,26

: LEGAL NOTICE Mack Energy Corporation, Post Office Box 960, Artesia, New Mexico

Keywords Printed By : Barbara Boans Entered By : Barbara Boans

#### LEGAL NOTICE

Mack Energy Corporation, Post Office Box 960, Artesia, New Mexico 88211has filed an 0960, Application with the New Mexico Oil Conservation Division seeking authorization to inject produced salt water in the Beech Federal Well No. 3 located 330 feet from the South line and 1775 feet from the East line of Section 25, Township 17 South, Range 27 East, NMPM, Eddy County, New Mexico. The source of the disposed water will be from wells in the area which produce from the Wolfcamp formation. The disposal water will be injected into the lower Abo formation at a disposal depth of 6450 feet to 6594 feet. A maximum surface injection pressure of 100 pounds (subject to subsequent increase after Division approved testing) and a maximum injection rate of 1500 BWPD. Any with Interested party questions or comments may contact Ron Lanning at Mack Energy Corporation, Post Office Box 960, Artesia, New Mexico 88211-0960 or call (505) 746-2362. Objections to this application or requests for hearing must be filed with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within fifteen days of the date of the publication of this notice, Published In the Artesia Dally Press, Artesia, New

DATE 'S	SUSPENSE	ENG (	LOGGED IN	ТҮРЕ	APP NO.

ABOVE THIS LINE FOR DIVISION USE ONLY

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



		1220 004111 011 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.,	
		<b>ADMINISTRATIVE APPLIC</b>	ATION CHECKLIST	
TH	HIS CHECKLIST IS N	IANDATORY FOR ALL ADMINISTRATIVE APPLICATION WHICH REQUIRE PROCESSING AT THE DI		S AND REGULATIONS
Applic	[DHC-Dov		ation Unit] [SD-Simultaneous De ingling] [PLC-Pool/Lease Comi age] [OLM-Off-Lease Measurer sure Maintenance Expansion] ction Pressure Increase]	mingling] nent]
[1]	TYPE OF A	PPLICATION - Check Those Which Apply Location - Spacing Unit - Simultaneous I  NSL NSP SD		
	Checl [B]	Commingling - Storage - Measurement DHC CTB PLC	PC OLS OLM	
	[C]	Injection - Disposal - Pressure Increase -  ☐ WFX ☐ PMX ☒ SWD ☐		
	[D]	Other: Specify	<del>-</del>	
[21	NOTIFICAT [A]	TION REQUIRED TO: - Check Those Wh  Working, Royalty or Overriding Roy		<b>&amp;</b> 22
	[B]	Offset Operators, Leaseholders or St	urface Owner	
	[C]	Application is One Which Requires	Published Legal Notice	
	[D]	Notification and/or Concurrent Appr U.S. Bureau of Land Management - Commissioner of Pul	roval by BLM or SLO blic Lands, State Land Office	
	[E]	For all of the above, Proof of Notific	cation or Publication is Attached,	and/or,
	[F]	Waivers are Attached		
[31		CCURATE AND COMPLETE INFORMA ATION INDICATED ABOVE.	ATION REQUIRED TO PROC	ESS THE TYPE
	val is accurate	TION: I hereby certify that the information and complete to the best of my knowledge. equired information and notifications are sul	I also understand that no action	
	Note:	Statement must be completed by an individual wit	h managerial and/or supervisory capa	city.
Crissa	D. Carter	(una Da Cant	Production Analyst	5/14/02
	or Type Name	Signature	Title	Date
			ccarter@pvtnetworks.net e-mail Address	

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL TRESOURCES DEPARTMENT

#### OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

FORM C- 108 Revised 4-1-98

#### APPLICATION FOR AUTHORIZATION TO INJECT

l.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval'? Yes No	ag
IL	OPERATOR: Mack Energy Corporation	
	ADDRESS: P.O. Box 960, Artesia, NM 88211-0960	
	CONTACTPARTY: Matt J. Brewer PHONE: (505)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 circ drawn around each proposed injection well. This circle identifies the well's area of review.	le
V1.	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.	
VIL	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 chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearb wells, etc.).</li> </ol>	
*V111	. 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 w 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.	ith
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	:d)
*XI. A	ttach a chemical analysis of freshwater from two or more freshwater 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. A	applicants must complete the "Proof of Notice" section on the reverse side of this form.	
	ertification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledg and belief.	3
	NAME: Robert C. Chase TITLE: Vice President	
	NAME: Robert C. Chase  SIGNATURE: DATE: 5/7/02	_
*	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:	

#### 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, 2040 South Pacheco, 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.

OPERATOR:

# INJECTION WELL DATA SHEET

OPERATOR:	Mack Energy Corporation	
WELL NAME & NUMBER:	Beech Federal #3	
WELL LOCATION: 330 FSL & 1775 FEL	0	178
FOOTAGE LOCATION	UNIT LETTER	SECTION TOWNSHIP RANGE
WELLBORE SCHEMATIC	M	WELL CONSTRUCTION DATA Surface Casing
	Hole Size: 12 1/4	Casing Size: 8 5/8 @ 400'
	Cemented with: 325	sx. or ft
	Top of Cement: Circulated	ed Method Determined:
		Intermediate Casing
	Hole Size:	Casing Size:
	Cemented with:	sx. or ft
	Top of Cement:	Method Determined:
		Production Casing
	Hole Size: 77/8	Casing Size: 5 1/2 @ 7955'
	Cemented with: 2300	sx. or ft
	Top of Cement: Circulated	ed Method Determined:
	Total Depth: 7961'	
		Injection Interval
	6450'	feet to 6594' (Perforated)
	(Perl	(Perforated or Open Hole: indicate which)
	,	` <b>-</b>

# INJECTION WELL DATA SHEET

[ut	Size:	2 7/8"	Lining Material:	Plastic Coated	
ľy	Type of Packer:	Haliburt	Haliburton Trump Packer		
Sac	acker Setting Depth:	6400'			
OŦ)	ner Type of Tubing/Ca	Other Type of Tubing/Casing Seal (if applicable):.	le):		
		Add	Additional Data		
<u></u> ;	Is this a new well drilled for injection?	rilled for injection?	Yes No		
	If no, for what purp	If no, for what purpose was the well originally drilled?		Wolfcamp Test	
	Name of the Injection Formation:	on Formation:	Lower Abo (Lanier)	(Lanier)	
3.	Name of Field or Pool (if applicable):	ool (if applicable):	Lower Al	Lower Abo (Lanier)	
4.	Has the well ever b intervals and give p	een perforated in any elugging detail, i.e. sacl	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. Yes, wi	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. Yes, will squeeze perfs	
		from 6107-6252.5'	from 6107-6252.5' and test to 500# for 30 minutes.	ninutes.	
5.	Give the name and injection zone in thi	depths of any oil or ga	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: 7 Rivers, Queen, San Andres, Gloritta, Tubb, Abo, Wo	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: 7 Rivers, Queen, San Andres, Gloritta, Tubb, Abo, Wolfcamp,	

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### VI. TABULATION OF DATA OF AREA OF REVIEW

See Attached

AREA OF REVIEW WELL DATA

			7117			717					
		_	2	IYPE & DATE	HOLE	CASING SIZE	SELLING	×s			
LEASE	WELL#	LOCATION	(PBTD)	DRILLED	SIZE	& WEIGHT	DEPTH	CMT	100	PERFS	
		330' FSL									
Beech		940' FWL	7244	ō	12 1/4	8 5/8, 32#	358,	250	circ		
30-015-30812	1	25-17S-27E	3615'	11/19/99	7 7/8		(3628.)	1000	circ	3195-3552'	
		1650' FSL									
Beech		1650' FEL	7800	lio	12 1/4	8 5/8, 32#	395.	350	circ		
30-015-31790	2	25-17S-27E	(7752)	5/31/01	7 7/8	5 1/2, 17#	7800,	1600	circ	6915-6988'	
		330' FSL									· \
Beech		1775' FEL	7961	iio	12 1/4	8 5/8, 32#	400,	325	circ	6450-6594	V
30-015-32036	3	25-17S-27E	(6385')	11/05/01	7 7/8	5 1/2, 17#	7955	2300	circ	6107-6252.5	_
		2185' FNL									
Birch	_	1650 FEL		iö	12 1/4						
30-015-30868	~	25-17S-27E	7814'	1/13/00	7 7/8	8 5/8, 32#	321'	300	_	Plugged	
	/	990. FNL			17 1/2	13 3/8, 61#	445'	550	circ		_
No Bluff /		860' FWL	9917.	Gas	12 1/4	8 5/8, 32#	1855'	900	circ		
30-015-30907	1	36-17S-27E	(9838.)	1/19/00	7 7/8	5 1/2, 17#	9917	A/N	ou	9634-9658'	
	/	1980' FNL			17 1/2	13 3/8, 48#	425'	450	circ		
No Bluff', v	2/	760' FEL	_	Gas	12 1/4	8 5/8, 32#	2000,	650	circ		
30-015(35359)		36-17S-27E	10050'	3/18/01	7 7/8	5 1/2, 17#	10050	553	01	9927-9964'	
		1650' FSL			17 1/2	13 3/8, 48#	423'	300	circ		,
, Oxc		2310' FWL		lio	7	8 5/8, 32#	1949	750	circ		
Spruce	-	25-17S-27E	9985	8/28/98	2 7/8	4 1/2, 11.6#	7039.	1840	circ	6906-6931	
Ę		1650 FSL									
1.032		990' FEL	8130.	ijo	12 1/4	8 5/8, 24#	395'	300	circ	6992-7000	
Staté 25 V	1	25-17S-27E	(8047")	8/8/01	2 7/8	5 1/2, 17#	.2608	1650	circ	6908-6916	
À		455 FSL									
364		990' FEL	8150.	iio	12 1/4	8 5/8, 24#	428.	350	circ	7143-7768'	
State 25	2	25-17S-27E	(7275')	10/16/01	7 7/8	5 1/2, 17#	8150'	1455	circ	6856-6979'	

### Mack Energy Corporation Beech Federal #3

8 5/8 casing set @ 400' C/w 325sx Class C (circ 92sx) CIBP set @ 6420' w/35' cement cap CIBP set @ 6555' w/35' cement cap 5 1/2 casing set @ 7955' C/w 2300sx (circ 118sx)

## Mack Energy Corporation Birch Federal #1

15sx surface plug
8 5/8 casing set @ 321'
35sx plug from 375-275'
45sx plug from 1770-1620'
45sx plug from 3150-3100'
70sx plug from 6440-6240'
70sx plug from 7720-7520' Open hole to 7814'

#### VII. DATA SHEET: PROPOSED OPERATIONS

- 1. Proposed average and maximum daily rate and volume of fluids to be injected; Respectively, 500 BWPD and 1500 BWPD
- 2. The system is closed or open;

#### Closed

3. Proposed average and maximum injection pressure;

#### Vacuum-100#

3. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water;

#### We will be re-injecting produced water

5. 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;

See attached