PLR0326530792

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

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



Mike.Markes@meritenergy.com

e-mail Address

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATION HIGH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTAFE (INSL-Non-Standard Location) [N3P-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PLC-Pool/Lease Germaningling] [PLC-Pool/Lease Germaningling] [PLC-Pool/Lease Germaningling] [PLC-Pool/Lease Germaningling] [PLC-Pool/Lease Measurement] [PMX-Prossure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] [IDI-Injection Pressure Increase] [IDI-Injection Pressure Increase - Enhanced Oil Recovery [IDI-Injection PPR] [IDI-Injection - Disposal - Pressure Increase - Enhanced Oil Recovery [IDI-Injection PPR] [IDI-Injection - Disposal - Pressure Increase - Enhanced Oil Recovery [IDI-Injection PPR] [IDI-In			ADMINISTRATIVE A	PPLICATION	HECKLIS I	
[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unifg [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMN-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [PFI-Injection Pressure Increase] [EOR-Qualified Enhanced Oll Recovery Certification] [PPR-Positive Production Response] [TYPE OF APPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD 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 PPI EOR PPR PPR D Other: Specify SWD PPI EOR PPR PPR D Other: Specify Other: Specify 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 Us. Bureau of Land Management - Commissioner of Public Lands, State Land Office E For all of the above, Proof of Notification or Publication is Attached, and/or, F Waivers are Attached SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TY OF APPLICATION INDICATED ABOVE. CERTIFICATION: I hereby certify that the information submitted with this application for administrat approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on application until the required information and notifications are submitted to the Division. Note: Statement must be pompleted by an individual with managerial and/or supervisory capacity.	THIS	CHECKLIST IS N				REGULATIONS
[A] Location - Spacing Unit - Simultaneous Dedication NSL		[NSL-Non-Sta [DHC-Dow [PC-Pe	ns: andard Location] [NSP-Non-Stand vnhole Commingling] [CTB-Leas ool Commingling] [OLS - Off-Lea [WFX-Waterflood Expansion] [[SWD-Salt Water Disposal]	ard Proration Unit [SD se Commingling] [PL0 ase Storage] [OLM-Of PMX-Pressure Maintena [IPI-Injection Pressure	0-Simultaneous Dedica C-Pool/Lease Comming ff-Lease Measurement] ance Expansion] e Increase]	ling]
B	[1] ′		Location - Spacing Unit - Simul	taneous Dedication		
WFX			Commingling - Storage - Measu		G OLM	
NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] Working, Royalty or Overriding Royalty Interest Owners [B] Offset Operators, Leaseholders or Surface Owner [C] Application is One Which Requires Published Legal Notice [D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office [E] For all of the above, Proof of Notification or Publication is Attached, and/or, [F] Waivers are Attached [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TY OF APPLICATION INDICATED ABOVE. [4] CERTIFICATION: I hereby certify that the information submitted with this application for administrate approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken of 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. Mike Markes South Exploitation Manager		[C]				
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Mike Markes South Exploitation Manager 9/16	approval	is accurate a	and complete to the best of my kno	wledge. I also understan	nd that no action will be	ministrative e taken on this
		Note	:: Statement must be completed by an in	dividual with managerial and	/or supervisory capacity.	$\alpha / \alpha / \alpha$
Print or Type Name Signature Title	Mike Markes	s	MAULE MIL	South Exp	loitation Manager	7/16/03
Time of Type Name Signature Time Date	Print or T	Type Name	Signature	Title		Date

13727 Noel Road Suite 500 Dallas, Texas 75240

RECEIVED

SEP 1 8 2003

OIL CONSERVATION

DIVISION

Ph 972.701.8377 · Fx 972.960.1252 · www.meritener.gy.com

September 16, 2003

NMOCD 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Attn: Mr. David Catanach

RE: Application for Authorization to Inject Water

Grayburg-Jackson Waterflood Project

Seven Rivers Formation

Sections 19 & 20, T-17-S, R-31-E

Eddy County, New Mexico

Dear Mr. Catanach,

Merit Energy Company respectfully requests administrative approval of the attached C-108 application regarding its existing Grayburg-Jackson waterflood for the purpose of injecting water into the Seven Rivers formation as part of a secondary recovery project. This work will allow Merit to recover additional oil from the Seven Rivers formation. Copies of related Division Order No. R-2268 and Administrative Order No. WFX-700 are attached.

Merit respectfully requests that this application approved administratively at the earliest possible convenience so that operations can be advanced in a prudent manner. If you have any questions concerning the application, please contact me at (972) 628-1579.

Sincerely,

Jason Wacker

Petroleum Engineer

NMOCD – Artesia

BLM

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: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes No								
II.	OPERATOR: Merit Energy Company								
	ADDRESS: 13727 Noel Road, Suite 500, Dallas, Texas 75240								
	CONTACT PARTY: Jason Wacker PHONE: 972-628-1579								
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? X Yes No If yes, give the Division order number authorizing the project: R-2268, WFX-700								
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: Jason Wacker TITLE: Petroleum Engineer								
	SIGNATURE: Jasen Darles DATE: 9/16/2003								
*	E-MAIL ADDRESS: jason.wacker@meritenergy.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:								

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.

MERIT ENERGY COMPANY APPLICATION FOR AUTHORITY TO INJECT GRAYBURG-JACKSON WATERFLOOD

III. Well Data

a.

- i. Fren Oil Company #1 660' FSL & 1980' FEL Section 19, T-17-S, R-31-E Eddy County, New Mexico
- ii. Surface Casing7", 20# @ 507' with 50 sx. TOC @ 100' (calculated).Hole size is unknown.

Production Casing 5-1/2", 17# @ 1850' with 100 sx. TOC @ 480' (calculated). Hole size is unknown.

- iii. Tubing will be 2-3/8", 4.7#, J-55, 8rd, EUE, IPC set at 1825'.
- iv. 5-1/2" Baker Model "AD-1" injection packer @ 1825'.

b.

- i. The injection interval will be the Seven Rivers formation in the Grayburg-Jackson field.
- ii. Water injection will be through open-hole 1850' 2030'. This is the injection interval.
- iii. This well was originally drilled as a Seven Rivers producer.
- iv. No other completions are known to exist in this well.
- v. There are no known upper oil zones. The next lower oil zone is the Grayburg formation at +/-2800', which was not penetrated in this well.

MERIT ENERGY COMPANY WELLBORE SCHEMATIC WELL NAME: FREN OIL COMPANY #1 FIELD: **GRAYBURG-JACKSON (SEVEN RIVERS)** LOCATION: 660' FSL & 1980' FEL, SEC 19-T17S-R31E COUNTY: **EDDY** STATE: ELEVATION: GL=3587'; KB=UNK SPUD DATE: 6/25/1943 COMP DATE: 8/1/1943 API#. 30-015-05249 PREPARED BY: JASON WACKER DATE: 8/25/2003 DEPTH SIZE WEIGHT **GRADE** THREAD HOLE SIZE CASING: 0' - 507' 20# CASING: 0' - 1850' 5-1/2" 17# CASING: TUBING: 0' - 1825' 2-3/8" 4.7# J-55 8 RD, EUE, IPC **TUBING** PROPOSED CURRENT **OPERATOR: MERIT ENERGY COMPANY** 7" CASING @ 507' W/50 SXS. TOC @ 100' (calc) BAKER AD-1 INJECTION PACKER @ 1825' 5 1/2" CASING @ 1850' W/100 SXS. TOC @ 480' (calc) OPEN HOLE INTERVAL: 1850' - 2030' TD @ 2030'

MERIT ENERGY COMPANY APPLICATION FOR AUTHORITY TO INJECT GRAYBURG-JACKSON WATERFLOOD

III. Well Data

a.

- i. Fren Oil Company #5 660' FSL & 660' FEL Section 19, T-17-S, R-31-E Eddy County, New Mexico
- ii. Surface Casing 8-5/8", 32# @ 480' with 50 sx. TOC @ 400' (calculated). Hole size is unknown.

Production Casing 7", 20# @ 1806' with 100 sx. TOC @ 880' (calculated). Hole size is unknown.

- iii. Tubing will be 2-3/8", 4.7#, J-55, 8rd, EUE, IPC set at 1775'.
- iv. 7" Baker Model "AD-1" injection packer @ 1775'.

b.

- i. The injection interval will be the Seven Rivers formation in the Grayburg-Jackson field.
- ii. Water injection will be through open-hole 1806' 2023'. This is the injection interval.
- iii. This well was originally drilled as a Seven Rivers producer.
- iv. No other completions are known to exist in this well.
- v. There are no known upper oil zones. The next lower oil zone is the Grayburg formation at +/-2773', which was not penetrated in this well.

MERIT ENERGY COMPANY WELLBORE SCHEMATIC WELL NAME: FREN OIL COMPANY #5 FIELD: GRAYBURG-JACKSON (SEVEN RIVERS) STATE: LOCATION: 660' FSL & 660' FEL, SEC 19-T17S-R31E COUNTY: EDDY NM ELEVATION: GL=3592'; KB=UNK SPUD DATE: 1/27/1944 COMP DATE: 2/25/1944 API#: 30-015-05253 PREPARED BY: JASON WACKER DATE: 8/25/2003 **DEPTH** SIZE WEIGHT **GRADE** THREAD HOLE SIZE CASING: 0' - 480' 8-5/8" 32# CASING: 0' - 1806' 20# CASING: 8RD, EUE, IPO TUBING: 0' - 1775' 2-3/8" 4.7# J-55 TUBING: CURRENT PROPOSED **OPERATOR: MERIT ENERGY COMPANY** 8-5/8" CASING @ 480' W/50 SXS. TOC @ 400' (calculated) BAKER AD-1 INJECTION PACKER @ 1775' 7" CASING @ 1806' W/100 SXS. TOC @ 880' (calculated) 6-1/8" OPEN HOLE: 1806'- 2023' INTERVAL 1923'-2023' SHOT W/320 QTS OF NITRO TD @ 2023'

Catanach, David

From: Jason Wad

Jason Wacker [Jason.Wacker@meritenergy.com]

Sent: Friday, December 05, 2003 1:12 PM

To: dcatanach@state.nm.us

Subject: Fren Oil Company #5 Amendment to C-108





Fren Oil Company #5 Well Data ...

FREN OIL 5.XLS

David,

Here is the amended Well Data Sheet and Wellbore Diagram for the Fren Oil Company #25. Merit will re-publish public notice in the Carlsbad Current Argus and notify offset operators of the amendment to the permit application. Thanks again!

(See attached file: Fren Oil Company #5 Well Data for C-108 revised.doc)

(See attached file: FREN OIL 5.XLS)

Jason Wacker Merit Energy Company 13727 Noel Road, Suite 500 Dallas, Texas 75240

Phone: 972-628-1579 Fax: 972-701-0351

Fren Oil Company #5 Well Data for C-108 revised.doc; FREN OIL 5.XLS

Adderdum

"是你说你就是这些我们你呢

MERIT ENERGY COMPANY APPLICATION FOR AUTHORITY TO INJECT GRAYBURG-JACKSON WATERFLOOD

III. Well Data

a.

- i. Fren Oil Company #5660' FSL & 660' FELSection 19, T-17-S, R-31-EEddy County, New Mexico
- ii. Surface Casing 8-5/8", 32# @ 480' with 50 sx. TOC @ 400' (calculated). Hole size is unknown.

Production Casing 7", 20# @ 1806' with 100 sx. TOC @ 880' (calculated). Hole size is unknown.

- iii. Tubing will be 2-3/8", 4.7#, J-55, 8rd, EUE, IPC set at 1700'.
- iv. 7" Baker Model "AD-1" injection packer @ 1700'.

b.

- i. The injection interval will be the Seven Rivers formation in the Grayburg-Jackson field.
- ii. Water injection will be through perforations 1750' 1790' and open-hole 1806' 2023'. This is the injection interval.
- iii. This well was originally drilled as a Seven Rivers producer.
- iv. No other completions are known to exist in this well.
- v. There are no known upper oil zones. The next lower oil zone is the Grayburg formation at +/-2773', which was not penetrated in this well.

MERIT ENERGY COMPANY WELLBORE SCHEMATIC FIELD: GRAYBURG-JACKSON (SEVEN RIVERS) WELL NAME: FREN OIL COMPANY #5 LOCATION: 660' FSL & 660' FEL, SEC 19-T17S-R31E COUNTY: **EDDY** STATE: NM ELEVATION: GL=3592'; KB=UNK SPUD DATE: 1/27/1944 COMP DATE: 2/25/1944 PREPARED BY: JASON WACKER API#: 30-015-05253 DATE: 8/25/2003 DEPTH SIZE **WEIGHT GRADE** THREAD **HOLE SIZE** 0' - 480' 8-5/8" 32# CASING: CASING: 20# 0' - 1806' CASING: **TUBING:** 0' - 1775' 2-3/8" 4.7# J-55 8RD, EUE, IPC **TUBING:** CURRENT PROPOSED **OPERATOR: MERIT ENERGY COMPANY** 8-5/8" CASING @ 480' W/50 SXS. TOC @ 400' (calculated) BAKER AD-1 INJECTION PACKER @ 1700' SEVEN RIVERS PERFORATIONS 1750' - 1790' 7" CASING @ 1806' W/100 SXS. TOC @ 880' (calculated) 6-1/8" OPEN HOLE: 1806'- 2023' INTERVAL 1923'-2023' SHOT W/320 QTS OF NITRO TD @ 2023'

MERIT ENERGY COMPANY APPLICATION FOR AUTHORITY TO INJECT GRAYBURG-JACKSON WATERFLOOD

III. Well Data

a.

- Fren Oil Company #25
 1880' FSL & 410' FEL
 Section 19, T-17-S, R-31-E
 Eddy County, New Mexico
- ii. Surface Casing 8-5/8", 24# @ 428', cement circulated to surface. Hole size is 12-1/4".

Production Casing 5-1/2", 15.5# @ 3731', cement circulated to surface. Hole size is 7-7/8".

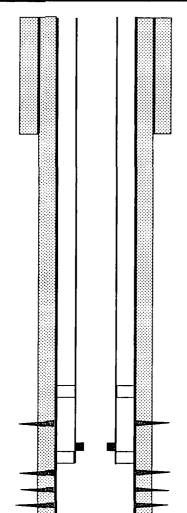
- iii. Tubing will be 2-3/8", 4.7#, J-55, 8rd, EUE, IPC set at 2698'. An injection mandrel at +/-1950', between the two packers, and another mandrel in the lower injection packer will allow injection into both the Grayburg and Seven Rivers formations at different rates and pressures.
- iv. 5-1/2" Baker Model "TS-1" isolation packer @ 1775'. 5-1/2" Baker Model "AD-1" injection packer @ 2698'.

b.

- i. The injection interval will be the Seven Rivers formation in the Grayburg-Jackson field.
- ii. Water injection will be through perforations 1810' 2100'. This is the injection interval.
- iii. This well was originally drilled as a Grayburg injector.
- iv. The well is currently a Grayburg injector with perforations from 2762' 3300'.
- v. There are no known upper oil zones. The next lower oil zone is the Grayburg formation at +/-2671', which was penetrated in this well.

MERIT ENERGY COMPANY WELLBORE SCHEMATIC

WELL NAME:	FREN OIL CO	MPANY #25		FIELD:	GRAYBURG-	JACKSON	
LOCATION: 1880'FSL & 410'FEL, SEC 19-T17S-R31E			COUNTY:	EDDY	STATE:	NM	
ELEVATION:	GL=3614'; KB=	3628'		SPUD DATE:	7/17/1997	COMP DATE:	8/14/1997
API#: 30-01 <u>5-2</u>	9537	PREPARED	BY:	JASON WACKE	R	DATE:	8/25/2003
	DE	PTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' -	428'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' -	3731'	5 1/2"	15.5#	J-55	ST&C	7 7/8"
CASING:							
TUBING:	0' -	2697'	2 3/8"	4.7#	J-55	8RD, EUE, IPO	
TUBING:							



CURRENT

PROPOSED

OPERATOR: MERIT ENERGY COMPANY

8-5/8" CASING @ 428' W/725 SXS. CEMENT TO SURFACE.

DETAIL OF PERFORATIONS

GRAYBURG: 2762', 64'

U.GRAYBURG: 2789', 99', 2821', 28', 30', 32'

M.GRAYBURG: 2852'

LOCO HILLS: 2880', 2903'

METEX: 2918', 28', 30', 55'

L.GRAYBURG: 2996', 3022', 24', 26', 48', 50'

PREMIER: 3079', 93', 3105', 09', 17', 23', 27', 31'

VACUUM: 3171', 3204', 29'

LOVINGTON: 3258', 62', 66', 81', 3300'

BAKER TENSION SET ISOLATION PACKER @ 1775'

NEW SEVEN RIVERS PERFORATIONS 1810' - 2100' SEVEN RIVERS INJECTION MANDREL @1950'

SEATING NIPPLE WITH GRAYBURG INJECTION MANDREL @ 2697'

BAKER AD-1 PACKER @ 2698'

PERFORATIONS: 2762'- 3300' (OA) - 37 HOLES

PBTD @ 3681'

5-1/2" CASING @ 3731' W/2325 SXS. CEMENT TO SURFACE.

TD @ 3732'

Catanach, David

From:

Jason Wacker [Jason.Wacker@meritenergy.com]

Sent:

Friday, December 05, 2003 1:14 PM

To:

dcatanach@state.nm.us

Subject:

FREN OIL 25.XLS;Fren Oil Company #25 Well Data for C-108 revised.doc





FREN OIL 25.XLS Fren Oil Company #25 Well Data...

David,

Here is the amended Well Data Sheet and Wellbore Diagram for the Fren Oil Company #25. Merit will re-publish public notice in the Carlsbad Current Argus and notify offset operators of the amendment to the permit application. Thanks!

(See attached file: FREN OIL 25.XLS)(See attached file: Fren Oil Company #25 Well Data for C-108 revised.doc)

Jason Wacker Merit Energy Company 13727 Noel Road, Suite 500 Dallas, Texas 75240

Phone: 972-628-1579 Fax: 972-701-0351

FREN OIL 25.XLS; Fren Oil Company #25 Well Data for C-108 revised.doc

Addendum

MERIT ENERGY COMPANY APPLICATION FOR AUTHORITY TO INJECT GRAYBURG-JACKSON WATERFLOOD

III. Well Data

a.

- Fren Oil Company #25
 1880' FSL & 410' FEL
 Section 19, T-17-S, R-31-E
 Eddy County, New Mexico
- ii. Surface Casing 8-5/8", 24# @ 428', cement circulated to surface. Hole size is 12-1/4".

Production Casing 5-1/2", 15.5# @ 3731', cement circulated to surface. Hole size is 7-7/8".

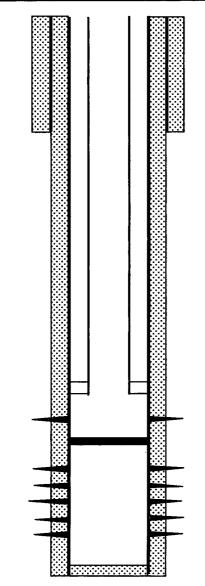
- iii. Tubing will be 2-3/8", 4.7#, J-55, 8rd, EUE, IPC set at 1680'.
- iv. 5-1/2" Baker Model "AD-1" isolation packer @ 1680'.

b.

- i. The injection interval will be the Seven Rivers formation in the Grayburg-Jackson field.
- ii. Water injection will be through perforations 1729' 2050'. This is the injection interval.
- iii. This well was originally drilled as a Grayburg injector.
- iv. The well is currently a Grayburg injector with perforations from 2762' 3300'.
- v. There are no known upper oil zones. The next lower oil zone is the Grayburg formation at +/-2671', which was penetrated in this well.

MERIT ENERGY COMPANY WELLBORE SCHEMATIC

WELL NAME: FREN OIL COMPANY #25				FIELD:	GRAYBURG-J	ACKSON	
LOCATION: 1880'FSL & 410'FEL, SEC 19-T17S-R31E			COUNTY:	EDDY	STATE:	NM	
ELEVATION:	GL=3614'; KB=	3628'		SPUD DATE:	7/17/1997	COMP DATE:	8/14/1997
API#: 30-015-2	29537	PREPARED B	Y:	JASON WACK	ER	DATE:	8/25/2003
	DE	PTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' -	428'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' -	3731'	5 1/2"	15.5#	J-55	ST&C	7 7/8"
CASING:							
TUBING:	0' -	2697'	2 3/8"	4.7#	J-55	8RD, EUE, IPC	
TUBING:							



CURRENT

PROPOSED

OPERATOR: MERIT ENERGY COMPANY

8-5/8" CASING @ 428' W/725 SXS. CEMENT TO SURFACE.

DETAIL OF PERFORATIONS

GRAYBURG: 2762', 64'

U.GRAYBURG: 2789', 99', 2821', 28', 30', 32'

M.GRAYBURG: 2852' LOCO HILLS: 2880', 2903'

METEX: 2918', 28', 30', 55'

L.GRAYBURG: 2996', 3022', 24', 26', 48', 50'

PREMIER: 3079', 93', 3105', 09', 17', 23', 27', 31'

VACUUM: 3171', 3204', 29'

LOVINGTON: 3258', 62', 66', 81', 3300'

BAKER AD-1 PACKER @ 1680'

NEW SEVEN RIVERS PERFORATIONS 1729' - 2050'

CIBP @ 2100'

PERFORATIONS: 2762'- 3300' (OA) - 37 HOLES

PBTD @ 3681'

5-1/2" CASING @ 3731' W/2325 SXS. CEMENT TO SURFACE.

TD @ 3732'

Catanach, David

From:

Jason Wacker [Jason.Wacker@meritenergy.com]

Sent:

Monday, December 08, 2003 7:10 AM

To: Subject:

dcatanach@state.nm.us Exception Wells Within AOR

David,

Here is the list of exception wells for each of the four AORs listed in Merit's injection permit application for the Grayburg Jackson waterflood expansion. Thanks!

Fren Oil Co. #25
Turner A #36
Fren Oil Co. #12
Max Frhess #2
Fren Oil Co. #13

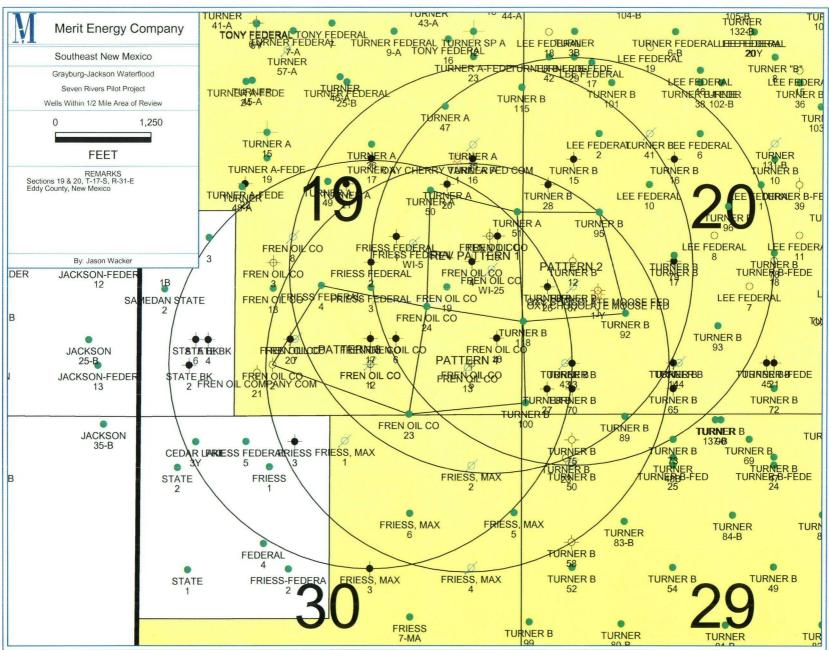
Fren Oil Co. #1
Fren Oil Co. #3
Cedar Lake #3Y
Fren Oil Co. #2
Fren Oil Co. #12
Max Priess #2
Fren Oil Co. #13

Fren Oil Co. #5
Fren Oil Co. #2
Fren Oil Co. #12
Max Friess #4
Max Priess #2
Fren Oil Co. #13
Turner B #50

Turner B #12
Fren Oil Co. #13
Turner B #44

Jason Wacker Merit Energy Company 13727 Noel Road, Suite 500 Dallas, Texas 75240

Phone: 972-628-1579 Fax: 972-701-0351



XI. Chemical Analysis of Fresh Water

There are no known producing fresh water wells within one mile of a proposed injection well.

XII. Affirmative Statement of Open Faults

Upon examination of the available geologic and engineering data, no evidence of open faults or any other hydraulic connection between the injection zone and any underground source of drinking water was found.

XIII. Proof of Notice and Proof of Publication

The Bureau of Land Management is the surface owner. They have been notified by letter with a copy of our application.

Merit Energy Company operates the Grayburg-Jackson Unit in sections 19 & 20, T17S, R31E, Eddy County, New Mexico. Offset operators in the area of review are as follows:

Glen Plemons PO Box 113 Lovington, NM 88260

Hanson Energy R 342 S Haldeman Rd Artesia, NM 88210

Marbob Energy Corp PO Box 227 Artesia, NM 88211

OXY USA WTP Limited Partnership PO Box 4294 Houston, TX 77210

Premier Oil & Gas, Inc. PO Box 1246 Artesia, NM 88210

Each of the previous operators was provided a letter by certified mail. Proof of notice is attached.

An Affidavit of Publication from the Carlsbad Current-Argus is attached

WELL LISTING HALF MILE AREA OF REVIEW GRAYBURG JACKSON WATERFLOOD SEVEN RIVERS PILOT PROJECT

API NUMBER WELL NAME	WELL NUM	SECTION	TOWNSHIP	RANGE	OPERATOR	STATUS	SPUD DATE	TD
30015052520000 FREN OIL CO	4	19	17S	31E	ARCO	P&A	12/8/1943	2,054
30015052540000 FREN OIL CO	6	19	17S	31E	ARCO	P&A	8/10/1946	2,020
30015052570000 FREN OIL CO	9	19	17S	31E	ARCO	P&A	2/5/1947	3,445
30015054700000 FRIESS, MAX	3	30	17S	31E	ARCO	P&A	7/1/1957	3451
30015052410000 TURNER A	16	19	17S	31E	ARCO	P&A	3/2/1944	1,927
30015052420000 TURNER A	17	19	17S	31E	ARCO	P&A	8/29/1944	1,965
30015052450000 TURNER A	20	19	17S	31E	ARCO	P&A	4/16/1948	1,935
30015052460000 TURNER A	21	19	17S	31E	ARCO	P&A	10/10/1948	1,932
30015052860000 TURNER B	14	20	17S	31E	ARCO	P&A	6/15/1944	2,115
30015052940000 TURNER B	26	20	178	31E	ARCO	P&A	10/15/1947	2,010
30015052950000 TURNER B	27	20	17S	31E	ARCO	P&A	10/22/1947	2,034
30015052960000 TURNER B	28		17S	31E	ARCO	P&A	4/22/1948	1,949
30015053010000 TURNER B	70	20	17S	31E	ARCO	P&A	8/12/1960	7,200
30015054450000 TURNER B	58	29	17S	31E	AVON ENERGY	DRY	7/27/1959	13714
30015052580000 FREN OIL CO	10	19	178	31E	DEVON ENERGY	P&A	1/6/1947	2,034
30015052680000 FRIESS FEDERAL	2	19	17S	31E	DEVON ENERGY	P&A	7/17/1944	1,970
30015054630000 FRIESS	1	30	17S	31E	GLEN PLEMONS	OIL	9/15/1942	2,058
30015239340000 FRIESS FEDERAL	5	30	17S	31E	GLEN PLEMONS	OIL	_	2,570
30015054770000 CEDAR LAKE	3Y	30	178	31E	HANSON ENERGY	OIL	6/14/1958	3,423
30015052850000 TURNER B	13	20	17S	31E	HONDO OIL & GAS	P&A	5/29/1944	2,051
30015052870000 TURNER B	15	20	17S	31E	HONDO OIL & GAS	P&A	8/31/1944	1,949
30015052880000 TURNER B	16	20	17S	31E	HONDO OIL & GAS	P&A	11/2/1944	1,974
30015052890000 TURNER B	17	20	17S	31E	HONDO OIL & GAS	P&A	11/12/1944	2,046
30015052720000 STATE BK	2	19	17S	31E	MACK ENERGY	P&A	8/24/1966	2,014
30015052740000 STATE BK	4	19	17S	31E	MACK ENERGY	P&A	6/4/1947	1,998
30015052690000 STATE BK	6	19	17S	31E	MACK ENERGY	P&A	9/20/1962	7,090
30015052620000 FREN OIL CO	16	19	17S	31E	MARBOB ENERGY	P&A	8/24/1961	7,067
30015052630000 FREN OIL CO	17	19	178	31E	MARBOB ENERGY	P&A	12/11/1961	7,035
30015052650000 FREN OIL CO	19	19	178	31E	MARBOB ENERGY	OIL	3/12/1962	7,100
30015052660000 FREN OIL CO	20	19	17S	31E	MARBOB ENERGY	P&A	5/27/1962	7,115

WELL LISTING HALF MILE AREA OF REVIEW GRAYBURG JACKSON WATERFLOOD SEVEN RIVERS PILOT PROJECT

					. <u></u>			
30015302680000 LEE FEDERAL	2	20	17S	31E	MARBOB ENERGY	OIL	8/15/1998	5,300
30015304240000 LEE FEDERAL	6	20	17S	31E	MARBOB ENERGY	OIL	7/27/1999	5,170
30015304230000 LEE FEDERAL	7	20	17S	31E	MARBOB ENERGY	LOC	N/A	N/A
30015305980000 LEE FEDERAL	8	20	17S	31E	MARBOB ENERGY	LOC	N/A	N/A
30015305110000 LEE FEDERAL	10	20	17S	31E	MARBOB ENERGY	OIL	4/29/2001	5,231
30015326480000 LEE FEDERAL	17	20	17S	31E	MARBOB ENERGY	OIL	4/9/2003	5,191
30015052990000 TURNER B	65	20	17S	31E	MARBOB ENERGY	P&A	3/25/1960	7,497
30015052490000 FREN OIL CO	1	19	17S	31E	MERIT ENERGY	SHUT-IN	6/25/1943	2,040
30015052500000 FREN OIL CO	2	19	17S	31E	MERIT ENERGY	TA	10/2/1943	3,116
30015052510000 FREN OIL CO	3	19	17S	31E	MERIT ENERGY	SHUT-IN	3/12/1944	2,002
30015052530000 FREN OIL CO	5	19	17S	31E	MERIT ENERGY	SHUT-IN	1/27/1944	2,023
30015052550000 FREN OIL CO	7	19	17S	31E	MERIT ENERGY	INJ	10/19/1946	2,023
30015052560000 FREN OIL CO	8	19	17S	31E	MERIT ENERGY	INJ	11/27/1946	1,979
30015052590000 FREN OIL CO	11	19	17S	31E	MERIT ENERGY	SHUT-IN	5/4/1947	2,042
30015052600000 FREN OIL CO	12	19	17S	31E	MERIT ENERGY	INJ	12/14/1954	3,141
30015052610000 FREN OIL CO	13	19	17S	31E	MERIT ENERGY	INJ	3/6/1955	3,336
30015052640000 FREN OIL CO	18	19	17S	31E	MERIT ENERGY	OIL	1/2/1962	7,150
30015288220000 FREN OIL CO	23	19	17S	31E	MERIT ENERGY	OIL	6/12/1996	3,735
30015288550000 FREN OIL CO	24	19	17S	31E	MERIT ENERGY	OIL	7/20/1996	3,610
30015295370000 FREN OIL CO	WI-25	19	17S	31E	MERIT ENERGY	INJ	7/17/1997	3,732
30015052670000 FRIESS FEDERAL	1	19	17S	31E	MERIT ENERGY	P&A	9/18/1941	3,521
30015052350000 FRIESS FEDERAL	3	19	17S	31E	MERIT ENERGY	OIL	5/23/1962	7,085
30015288560000 FRIESS FEDERAL	4	19	17S	31E	MERIT ENERGY	OIL	5/29/1996	3,720
30015297190000 FRIESS FEDERAL	WI-5	19	17S	31E	MERIT ENERGY	INJ	12/6/1997	3,440
30015054590000 FRIESS, MAX	1	30	17S	31E	MERIT ENERGY	INJ	12/14/1943	2,057
30015054690000 FRIESS, MAX	2	30	17S	31E	MERIT ENERGY	INJ	4/26/1957	3,300
30015054710000 FRIESS, MAX	4	30	17S	31E	MERIT ENERGY	INJ	8/26/1957	3,397
30015266560000 FRIESS, MAX	5	30	17S	31E	MERIT ENERGY	OIL	3/12/1991	3,810
30015268820000 FRIESS, MAX	6	30	17S	31E	MERIT ENERGY	OIL	5/5/1992	3,937
30015200970000 TURNER A	35	19	17S	31E	MERIT ENERGY	INJ	12/2/1967	3,635
30015200980000 TURNER A	36	19	17S	31E	MERIT ENERGY	OIL	11/18/1967	3,442

WELL LISTING HALF MILE AREA OF REVIEW GRAYBURG JACKSON WATERFLOOD SEVEN RIVERS PILOT PROJECT

20015280170000	THE ID NIED A	47	10	170	210	MEDIT ENERGY	OII	5/7/1006	2742
30015289170000		47	19	17S	31E	MERIT ENERGY	OIL	5/7/1996	3743
30015288370000		49	19	17S	31E	MERIT ENERGY	OIL	4/15/1996	3,670
30015287720000		50	19	178	31E	MERIT ENERGY	OIL	2/15/1996	3,775
30015287580000		51	19	17S	31E	MERIT ENERGY	OIL	4/8/1996	3,665
30015052840000	TURNER B	12	20	17S	31E	MERIT ENERGY	TA	3/12/1944	2,022
30015054380000	TURNER B	23	29	17S	31E	MERIT ENERGY	TA	7/13/1946	2,102
30015053100000	TURNER B	41	20	17S	31E	MERIT ENERGY	INJ	5/14/1953	3,455
30015053140000	TURNER B	43	20	17S	31E	MERIT ENERGY	INJ	9/1/1955	3,238
30015053110000	TURNER B	44	20	17S	31E	MERIT ENERGY	INJ	10/30/1955	3,342
30015054370000	TURNER B	50	29	17S	31E	MERIT ENERGY	INJ	10/6/1957	3,375
30015053000000	TURNER B	67	20	17S	31E	MERIT ENERGY	INJ	5/26/1960	7,223
30015201090000	TURNER B	79	20	17S	31E	MERIT ENERGY	OIL	1/3/1968	3,530
30015265950000	TURNER B	89	29	17S	31E	MERIT ENERGY	OIL	12/30/1990	3,800
30015265960000	TURNER B	92	20	17S	31E	MERIT ENERGY	OIL	12/30/1990	3,800
30015266110000	TURNER B	93	20	17S	31E	MERIT ENERGY	OIL	1/18/1991	3,821
30015266120000	TURNER B	95	20	17S	31E	MERIT ENERGY	OIL	1/17/1991	3,700
30015266180000	TURNER B	96	20	17S	31E	MERIT ENERGY	OIL	1/27/1991	3,752
30015266170000	TURNER B	100	20	17S	31E	MERIT ENERGY	OIL	2/9/1991	3,580
30015266950000	TURNER B	101	20	17S	31E	MERIT ENERGY	OIL	6/7/1992	3,857
30015302110000	TURNER B	115	20	17S	31E	MERIT ENERGY	OIL	2/16/1999	3,600
30015289200000	TURNER B	118	20	17S	31E	MERIT ENERGY	OIL	6/18/1996	3760
30015324630000	CHERRY VANILLA	1	19	17S	31E	OXY USA WTP LP	GAS	10/30/2002	11,760
30015321190000	CHOCOLATE MOOSE	1	20	17S	31E	OXY USA WTP LP	DRY	12/20/2001	4,550
30015322630000	CHOCOLATE MOOSE	1-Y	20	17S	31E	OXY USA WTP LP	GAS	1/17/2002	11,736
30015106100000	FREN OIL CO COM	21	19	17S	31E	PREMIER OIL & GAS	TA	3/27/1965	12,299
30015054670000	FRIESS	3	30	17S	31E	SCHUSTER-SCHUST	P&A	2/6/1947	2,033
30015054570000	TURNER B	75	29	17S	31E	SINCLAIR	DRY	11/6/1960	

Form 3160-5 (June 1990)

UN' D STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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Budget Bu	reau	No. 1	004	-013	5
Expire	s Mai	ch 31	, 19	93	_

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for SUBMIT IN TRIPLICATE 1. Type of Well	5. Lease Designation and Serial No. LC-029395-B 6. If Indian, Allottee or Tribe Name 7. If Unit or CA, Agreement Designation 8. Well Name and No. Turner "B" #50 9. API Well No. 30-015-05437 10. Field and Pool, or Exploratory Area
660' FNL & 660' FWL, Sec. 29-17S-31E	Grayburg Jackson 11. County or Parish, State Eddy County, NM
CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT TYPE OF SUBMISSION TYPE OF ACTION	RT, OR OTHER DATA
Notice of Intent Subsequent Report ACCEPTED FORD Recompletion Plugging Back Casing Repair Altering Casing Other Cleaned out, perf'd & acidized Casing Repair Altering Casing Other Cleaned out, perf'd & acidized The following work was done on the water injection well: 3/13/97 - Ran bit & scraper to 3340'. 3/14/97 - Perf'd 2914', 2916', 2918', 2946', 2948', 2950', & 2963' w/749'' w/2500 gals 15% HCl acid + 3000# rock salt. 3/15/97 - Acidized 2914'-3085' w/1800 gals 15% HCl acid + 3000# rock salt. 3/17/97 - Ran 7" AD-1 pkr, nickel plated seating nipple & 89 jts 2 3/8" IPC tu	holes. Acidized 3154'-3320' Swabbed.
@ 300 psi for 15 min, OK. Began injecting. 14. I hereby certify that the foregoing is true and correct Signed	Date 03/26/97
Conditions of approval, if any:	

Form 3160-5 (June 1990)

UN' D STATES DEPARTMEN I' OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

OH CHO Ty. Division

· 图像 59210-2324

FURIN APPRUYED
Budget Bureau No. 1004-0135
Everiron Mores 24, 1002

SUNDRY NOTICES	AND REPORTS ON WELLS	5. Lease Designation and Serial No.
	r to deepen or reentry to a different reservoir.	
Use "APPLICATION FO	DR PERMIT—" for such propesals	Indian, Allottee or Tribe Name
SUBMIT	IN TRIPLICATE	
	APR 0 8 15	7. If Unit or CA, Agreement Designation
I. Type of Well Gas Other WIW	~ 3.	
2. Name of Operator	OIL COX.	Well Name and No.
DEVON ENERGY CORPORATION (NEV	ADA)	
3. Address and Telephone No.		9. API Well No.
•	OMA CITY, OKLAHOMA 73102 (405)552-4527	30-015-4 877 1
		10. Field and Pool, or Exploratory Area
4. Location of Well (Fontage, Sec., T., R., M., or Survey	Descriptions	Grayburg Jackson
130 F3L & 700 F2L, 000. 110-113-312		11. County or Parish, State
		Eddy County, NM
CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, RE	PORT OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTIO	· · · · · · · · · · · · · · · · · · ·
		· · · · · · · · · · · · · · · · · · ·
Notice of Intent	Abandonment Recompletion	☐ Change of Plans ☐ New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
Final Abandonment Notice	Casing Repair Altering Casing	☐ Water Shut-Off ☐ Conversion to Injection
1 mar / touridomness / touridom	Other Cleaned out, perf'd & acidized	Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
2/19/97 - Ran 5 1/2" scraper to 4500# rock salt. 2/20/97 - Perf'd @ 2914'-3279' 2/21/97 - Acidized 2914'-3056'	OH w/pkr & tbg. RIH w/4 3/4" bit to 3284'. 3342'. Acidized Grayburg perfs 3130'-3334	4' w/3000 gals 15% HCl acid +
2/24/97 - Began injecting.		1000年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の
		gara () in
		Text
	Part Control of the C	
14 I hereby certify that the foregoing is true and correct	KAREN BYERS	R.
Signed Karen Bueno	Title ENGINEERING TECHNICIAN	Date <u>03/26/97</u>
(This space for Federal or State office (se)	ACCEPTED FOR RECORD	
Approved by	Title CORR SCD. DAVID	CLAND .
Conditions of approval, if any:	APR 0 2 1997	Date
	FILL O ID 1001	
	71.84	
Title 18 U.S.C. Section 1001, makes it a crime for any person know to any matter within its jurisdiction.	vingly and willfully to make to any department or according the United State	s any false, fictitious or fraudulent statements or representat

Form 9-331 (May 1963)

NITED STATES DEPARTMENT OF THE INTERIOR (Other Instructions

SUBMIT IN 'LICATE' OB

Form approved. Budget Bureau No. 42-R1424. G. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTED OR TEIBE NAME

LC 029395 - A

GEOLOGICAL SURVEY SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different r 7 UNT AGRESMENT NAME GAS ' MELL () OTHER S, PARM OR LEASE NAME 2. NAME OF OPERATOR Turner "A". SINCLAIR OIL & GAS COMPANY <u>Kri</u> 1. 0. BOX 1920, Hobbs, New Mexico 88240 36 LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 10. FIELD AND POOL, OR WILDCAT Grayburg Jackson

1980' from the East line and 1800' from the North line REBENTYED

16. BLEVATIONS (Show whether DF, RT, GR, etc.)

11. SBC., T., R., M., OR SLK. AND SURVEY OR AREA 19-T17S-R31E 12. COUNTY OR PARISH 18. STATE Eddy New Mexico

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

	HOTICE OF INTENTION TO:			BUBBBQUENT REPORT OF:	
ح ر 	TEST WATER SEUT-OFF FRACTURE TREAT SHOOT OR ACIDIED		PULL OR ALTER CABING MULTIPLE COMPLETE ABANDON®	WATER SHUT-OFF REPAIRING WELL PRACTURE TREATMENT ALTERING CASING SHOOTING OR ACIDIZING ABANDONMENT®	
	(Other)		CHANGE PLANS	(Other) Log, run7"OD csg, perf, treat& X tes (Nors: Report results of multiple completion on Well Completion or Recompletion Report and Log form,)	3 t
-					_

- 17. DESCRIBE PROPOSED OF COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and sones pertiproposed work. nent to this work.)
 - 11-29-67 Ran electric logs.
 - 11-30-67 Ran 7"OD 26#,23# & 20# J-55 set @ 3450' and cemented w/350 sacks Incor Class C, 4% gel & 100 sacks Incor Class C plus 100 gals. Latex. Temperature survey indicated top of cement @ 1800' from surface. WOC 24 hrs.
 - Pressure tested casing to 1000// for 30 mims. Tested O.K. 12-2-67 Jet perforated Grayburg Jackson, Premier 2934-41, 2971-73, 2975-80, 3037-40' w/34-3/8" holes. Vacuum 3093-96' w/6-3/8" holes. Jackson 3405-09-11-12-13-15-18' w/14-3/8" holes. Total 54 - 3/8" holes.
 - Acidized Jackson perfs. 3405-3418' w/750 gals. BDA plus 1000 gals. M.A. in 12-3-67 2 stages w/10 bbl. flush water. Max. Press. 5300#, Min. Press. 5150# 0 1/2BFM. 15" SIP 900#.
 - Re-acidized Jackson perfs. 3405-18' w/750 gals. BDA Max. Press. 2200#, Min. Pres 12-4-67 1500# @ 4 BPM. ISIP 500#, Vacuum in 1 min.
 - Acidized Vacuum perfs. 3093-96' w/250 gals. M.A. Max. Press. 1700#, Min. 1700# 12-6-67 @ 3 BPM. Acidized Fremier perfs. 3037-40' w/250 gals. M.A. Max. Press. 2250#, Min. 1750# @ 3.5 BPH. ISIP 1200#. 5 mins. SIP 850#. Acidized Fremier perfs. 2971-2980' w/350 gals. Max. Press. 1850#, Min. 1500# @ 4.2 BPM. ISIP 1000#, 5 mins. SIP 400#. Acidized Premier perfs. 2934-41' w/400 gals. M.A. Pax. Fress. 1600#, Min. 800#. ISIP 1200#, 5 mins. SIP 750# @ 4 BPM.
 - 12-8-67 Sand Water fraced Grayburg perfs. 2934-3418' w/40,000 gals. gelled water plus 40.000// sand in 4 stages using 66 B.S. Max. Press. 4100//, Min. 3000// 0 32.7 BPM. ISIF 1650# 10 mins. SIP 1350#. 12 hr. SIP 0#. First New 011 12-10-67.

1021, 1070, 10 million 011 1770, 12 12 11 0//	THE DO MON OTH TE-10-01.
18. I hereby certify that the foregoing is true and correct SIGNED TITLE Superintendent	12-18-67 (OVER
(This space for Bederal or State affice use) APPROVED BY TITLE L CONDITIONS OF APPROVAL, IF ANY:	On the first total total the first total the first total tot

*See Instructions on Reverse Side

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC FIELD: GRAYBURG-JACKSON WELL NAME: MAX FRIESS #4 COUNTY: EDDY STATE: NM LOCATION: 1980'FNL & 660'FEL, SEC 30-T17S-R31E SPUD DATE: 08/26/57 ELEVATION: GL=3616; KB=UNK COMP DATE: 10/06/57 PREPARED BY: C.H. CARLETON DATE: 10/08/96 AP#: 30-015-05471 DEPTH SIZE WEIGHT GRADE THREAD HOLE SIZE CASING: 0' - 614' 10 3/4" 32.75# CASING: 0' - 3396' 7 20# CASING: TUBING: 0' - 2840' 2 3/8" 4.7# J-55 EUE 8rd TUBING: **CURRENT** PROPOSED **OPERATOR: DEVON ENERGY OPERATING CORPORATION** 10 3/4" CASING, SET W/100 SXS. TOC @ 260 (calc) BAKER AD-1 PACKER @ 2840' PERFORATIONS: 2903'- 3390' (OA) PBTD @ 3390' (milled up CIBP) 7" CASING SET W/100 SXS. TOC @ 2210' (TEMP SURVEY) TD @ 3397"

(11046:11061 1393)	TED STATES	SUBMIT IN THE ICAT	:	u No. 1004-0135 60 st 31, 1985
(Formerly 9–331) DEPARTM : BUREAU	OF LAND MANAGEMEN	ON CALLERON SECTION IN	5. LEASE DESIGNATION LC 065	N AND BREIAL NO.
	ES AND REPORTS	ON WELLS O	G. IF INDIAN, ALLOT	SWAN SEIST SO SE
OIL GAS OTHER		A Partie of the Control of the Contr	7. UNIT AGREEMENT	REAR
2. NAME OF OPERATOR	/	FF1	8. FARM OR LEASE N	AMB
ARCO Oil and Gas Com	pany /		9. Walt Fo.	ess MA
D O Port 1610 Midle	ind. Texas 79702	$\mathfrak{D}_{t,y,y}$	2	
4. LOCATION OF WELL (Report location clear See also space 17 below.)	irly and in accordance with an	State requirements.*	10. FIELD AND POOL,	OR WILDCAT
At surface 660 FNL4 660		PRECEIVED BY	Fren Seven 11. ssc., T., R., M., OS SURVEY OR ARI	BLE, AND
		FEB 1 0 1986	20 .176-217	2
14. PERMIT NO.	15. ELEVATIONS (Show whether i		30-17S-31F	H 13. STATE
API#30-015-05469	3599 GR	O. C. D.	Eddy	NM
16. Check Appl	ropriate Box To Indical	ARTESIA, OFFICE	Other Data	
NOTICE OF INTENTIC	DN TO:	SUBB	SQUENT REPORT OF:	
TEST WATER SHUT-OFF	LL OR ALTER CASING	WATER SHUT-OFF	REPAIRING	WELL
FRACTURE TREAT	LTIPLE COMPLETE	FRACTURE TREATMENT	ALTSBING	CASING
SHOOT OR ACIDIES ABA	ANDON*	SHOOTING OR ACIDIZING	MHODHAA	
REPAIR WELL CH.	ANGE PLANS	(Other) Recomplet	its of multiple completion appletion Report and Log f	
	WL set CIBP @ 305	50. Dump 35' cmt on	top. Test to 50	00#.
surf. 1-13-86: Perf 4 3 BPM (dwin surf	Ind pipe in good of hole @ 2150'. Set @ 1800#. Pmpd 65 h f. Set CR @ 2094.	t FBRC @ 2094'. Presobl - could not bring Cmtd w/125 sx "H".	ss ann to 500#. g to surf. Pmpo Standing press	EIR 1 15 bbl 3 1800#.
Ran TS @ 1750	Ind TOU @ 2030'.	Perf'd 7" csg @ 1800 H" Neat. SP 1500#.) W/4 holes. Se	et CK
	& CR f/1745-1815.	i heat. Si 1500#.		
1-16-86: Press t 96,97, 2000 gs 1-23-86 thru 1-	est to 600#. CO (98, 99, 2000, 2012 al 15% NEFE. Swb 1 -30-86. Test produ	to TOC @ 2080. Perf 2 - 2022, 33, 34, 35 load. RIH w/tbg, rod uction O BO, 4 BW Pe	(21 holes). Ad is & pump. RDPU	cdzd w/
1-30-86: Shut ir	n pnag eval.	ACCEPTED FO Su		Post # D- 2 2-14-86
		FEB 7	' 1986	P+H Grbg.
		CARLSBAD, N	EW MEXICO	
18. I hereby certify that the foregoing is tr	rue and correct	915-684-0312		. 0.6
SIGNED Ken GW Gosne	TITLE	Engr. Tech. Spc.	DATE	4-86
(This space for Federal or State office	use)			
APPROVED BY	TITLE		DATE	

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC WELL NAME: FREN OIL COMPANY #13 FIELD: GRAYBURG-JACKSON STATE: NM COUNTY: EDDY LOCATION: 660 FSL & 710 FEL, SEC 19-T17S-R31E ELEVATION: GL=3594'; KB=UNK SPUD DATE: 03/05/55 COMP DATE: 06/13/55 DATE: 10/08/96 PREPARED BY: C.H. CARLETON API#: 30-015-05261 HOLE SIZE 7175 - 219/37,4 **DEPTH** SIZE WEIGHT **GRADE** THREAD 0' - 514' 8 5/8" CASING: 28# 0' - 3194' J-55 7" 20# CASING: CASING: **TUBING:** 0' - 2971' 2 3/8" 4.7# J-55 TUBING: PROPOSED CURRENT **OPERATOR: DEVON ENERGY OPERATING CORPORATION** 8 5/8" CASING, SET W/75 SXS. TOC @ 390'(calc) BAKER AD-1 PACKER @ 2971' PERFORATIONS: 3044'- 3186' (OA) 7" CASING SET W/150 SXS. TOC @ 1980" **OPEN HOLE COMPLETION: 3194'- 3337'** PBTD @ 3333* TD @ 3337

Form 3160-5 (June 1990)

V TED STATES DEPARTMENT OF THE INTERIOR

N.M C Cons. Dission 211 S. 1815

11 10 20210-2834 ORM APPROVED **BUREAU OF LAND MANAGEMENT** Expires March 31, 1993 5. Lease Designation and Serial No. **SUNDRY NOTICES AND REPORTS ON WELLS** Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. LC-031844 Use "APPLICATION FOR PERMIT—" for such proposals 6. If Indian, Allottee or Tribe Name SUBMIT IN TRIPLICATE 7. If Unit or CA. Agreement Designation

Type of Well Gas Water Injection well Water Injection well	O Wall Name and Na
2. Name of Operator	8. Well Name and No.
DEVON ENERGY CORPORATION (NEVADA)	Fren Oil Co. #12
3. Address and Telephone No.	9. API Well No.
20 NORTH BROADWAY, SUITE 1500, OKLAHOMA CITY, OKLAHOMA 79102 (405) 235-3611	30-015-05260
1. Location of Well (Footage, Sec., T., R., M., or Survey Description)	10. Field and Pool, or Exploratory Area
610' FSL & 1980' FEL, Sec. 19-17S-31E	Grayburg Jackson
	11. County or Parish, State
	Eddy County, NM
CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT	RT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
Notice of Intent Abandonment Recompletion	Change of Plans New Construction
Subsequent Report Plugging Back	Non-Routine Fracturing
Casing Repair	Water Shut-Off
Final Abandonment Notice Altering Casing	Conversion to Injection
Other _	Dispose Water
	Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any p subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*	roposed work. If well is directionally drilled, give
subsurface locations and measured and true vertical deputs for all markers and zones pertinent to this work.	•
This well was converted to a water injection well as follows:	
11/4/97 to 11/10/97 - Cleaned out to 3200' (TD). Ran CBL & found TOC	@ 1894'
11/11/97 to 11/13/97 – Acidized open hole 3080'-3200' w/3250 gals 15% F	ICI acid & 1500# rock salt

Perf'd Grayburg 2785'-3030' w/23 - .40" holes. Acidized perfs 2785'-3030' w/2825 gals 15% HCl acid.

11/15/97 - Ran AD-1 pkr & 89 jts 2 3/8" IPC tubing to 2721'. Tested to 300 psi for 30 min, OK.

12/3/97 - Began injecting.

Posted 10-3 2-27-98 1000 IN

14. I hereby certify that the foregoing is true and correct				
V D		Karen Byers		
Signed Karen Buers	Title	Engineering Technician	Date	12/5/97
(This space for Federal or State office use)				
Approved by	Title		Date	
Conditions of approval, if any:				

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 copy of the final affected wells list along with 1 copy of this form per number of wells on that list to appropriate

District Office

Form C-104A

March 19, 2001

Change of Operator

	Previous Operator Information:		New Operator Information:
		Effective Date:	5/1/03
OGRID:	013837	New Ogrid:	009946
Name:	Mack Energy Corporation	New Name:	Warren Hanson dba Hanson Energy
	P.O. Box 960	Address:	R342 S. Haldeman Rd.
Address:		Address:	
City, State, Zip:	Artesia, NM 88211-0960	City, State, Zip:	Artesia, NM 88210
	nat the rules of the Oil Conservation Division ched list wells is true and complete to the b		
New Operator Signature:	man Harren		
Printed name:	Warren Hanson		·
Title:	Owner		•
Date:	5/14/2003 Phone: 505-746-2262		
Pravious operato	or complete below:		
r revious operate	i complete below.		NMOCD Approval
Previous Operator:	Mack Energy Corporation	Signature:	n W. Gem trict Sepenisor
Previous OGRID:	013837	Printed Ris Name: Ris	trict Sepenvisor
Signature:	(usx) (art	District:	
Printed Name:	Crissa D. Carter	Date:	MAY 2 3 2003

30-015-05477

Submit 5 Copies
Appropriate District Office
DISTRICT 1
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-104 Y Revised 1-1-89 See Instructions at Bottom of Pag

OIL CONSERVATION DIVISION P.O. Box 2088

ON DIVISION RECEIVED

SEP 0 1 1992

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

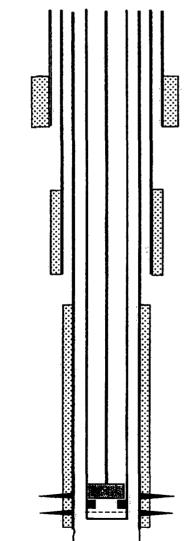
DISTRICT II P.O. Drawer DD, Antesia, NM 88210

Santa Fe, New Mexico 87504-2088 SEP 0 1 199
REQUEST FOR ALLOWABLE AND AUTHORIZATION O. C. D.

<u> </u>	HEQ	UESTFO	H ALLOWA	ABLE AND	AUTHOR	IZATIO	arega ()	PEY F	
I.		TO THAN	ISPORT O	IL AND NA	ATURAL C	ias	II API No.		
Operator						We	II API NO.		
Mack Energy Corpora	ition V								
P.O. Box 276, Artes	nia NM	88210	•						
Reason(s) for Filing (Check proper box)		00210		Ot	her (Please exp	lain)			
New Well		Change in Tr	ransporter of:	٠٠	(2 22 22 22 22	,			
Recompletion	Oil		ry Gas	Ef:	fective 8	3/1/92			
Change in Operator	Casinghea	-	ondensate 🔲						
If change of operator give name	hoh Ene	rau Corn	oration,	P. O. D.	rawer 217	7. Arte	sia. NM	88210	
The first of branch of the control o			014010117	1. 0. 2.	LUNCI 217	/ ALCO	3447 1113	00210	
II. DESCRIPTION OF WELL	AND LE								
Lease Name Cedar Lake		Well No. Po	ool Name, Inclu	-		1 -	d of Leare e, Bedenskaan	ese (Lease No.
}		31	GIDE 3	acskon Si	R Q Grbg	SA			-3627
Location D	. 330) [.] _		porth	. 731			wost	_
Unit LetterD	_ ::_	Fe	et From The _	HOLCH Lit	e and _/		Feet From The	west	i
Section 30 Townsh	ip 178	S Ra	ange 31E	. N	мрм,		Eddy	7	Count
									
<mark>Ш. DESIGNATION OF TRAI</mark>	SPORTE								-1-5
Name of Authorized Transporter of Oil		or Condensate	, <u> </u>		re address to wi				int)
Texas-New Mexico Pi					ox 2528,				
Name of Authorized Transporter of Casin	ghead Gas	X or	Dry Gas		re address to wi				
Conoco, Inc. If well produces oil or liquids,	Unit	Sec. Tw	p. Rge.		y connected?	West, P		TX 7970	15
give location of tanks.	D		7S 31E	Yes	•	1	u i		
If this production is commingled with that	from any other	r lease or pool	give comming	ling order numi	ber:				
IV. COMPLETION DATA	·	•		_	*******				,
Designate Type of Completion	- (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res
Date Spudded	Date Compl	. Ready to Pro	d.	Total Depth			P.B.T.D.	•	
Elevations (DF, RKB, RT, GR, etc.)	Name of Pro	oducing Forma	lion	Top Oil/Gas I	ay		Tubing Dep	th	
Perforations	<u> </u>	·		<u> </u>			Depth Casin	a Chan	
a til otemone			•				Deput Casin	g Silve	
	TT	JBING, CA	SING AND	CEMENTIN	NG RECORI	<u> </u>			
HOLE SIZE		NG & TUBIN			DEPTH SET		T s	ACKS CEME	NT
	,						Poster	110 3	
							9-11.	92	
							Ela o	2/2	
	N H5K 17	TAWIR.					0		
TEST DATA AND REQUES									
OLL WELL (Test must be after re Data First New Oil Run To Tank	Date of Test	t volume of loa	a ou ana must		nod (Flow, pur			or full 24 hours	<u>, </u>
ABINATION ON NON TO TANK	Date of 1em		İ	1 roomerne treet	ioa (r.o., par	40' Em 1811 c	••••		
ength of Test	Tubing Press	ure		Casing Pressur			Choke Size		
	, , , , , , , , , , , , , , , , , , , ,			-]		
ctual Prod. During Test	Oil - Bbis.			Water - Bbls.			Gas- MCF		
	······					•	<u>L</u>		
GAS WELL								,	
ctual Prod. Test - MCF/D	Length of Tes	il	J	Bbls. Condensa	IE/MMCF		Gravity of Co	ndensate	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	aaraa aa		Marian Maria	786.3 125	:	75-6- 81		
eine Method (nite), back pr.)	Tubing Pressu	ire (2014-ju)	ľ	Casing Pressure	(al-June)		Choke Size		

DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

WELL NAME: FREN	OIL COMPANY #3		FIELD: GRAYE	BURG-JACKS	ON	
LOCATION: 1980' F	SL & 1980' FWL, SEC 1	19-T17S-R31E	COUNTY: EDD	Υ		STATE: NM
ELEVATION: GL=36	10'; KB=UNK		SPUD DATE: 0	3/12/44	COMP DATE:	04/15/44
API#: 30-015-05251	PREPARED	BY: C.H. CARL	ET ON		DATE: 05/03/	99
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 482'	8 5/8"	24#			
CASING:	0' - 1802'	7*	20#			
CASING:	0' - 3074'	5 1/2*	15.5#	J-55		
TUBING:	0' - 3030'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



CURRENT

PROPOSED

OPERATOR: DEVON ENERGY CORPORATION(NEVADA)

8 5/8" CASING @ 482' W/50 SXS. TOC @ 350' (calculated)

7" CASING @ 1802' W/100 SXS. TOC @ 870' (calculated)

DETAIL OF PERFORATIONS

2958', 60', 82', 83', 84', 3026', 28', 30', 42', 44'

PERFORATION S: 2958'- 3044' (OA) - 10 HOLES

SEAT NIPPLE (1) 2995'

5 1/2" CASING @ 3074' W/80 SXS. TOC @ 1980' (calculated)

4 3/4" OPEN HOLE: 3074'- 3100'

PBTD @ 3100'(PEA GRAVEL & HYDROMITE)

TD @ 3134'

District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural R

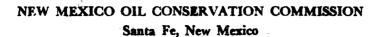
es

Form C-104A August 11, 2000

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Submit 1 Copy of the final affected wells list along with 2 copies of this form per number of wells on that list to appropriate District Office

Change of Operator

Previous Operator Information:	New Operator Information:
	Effective Date: 07/01/2002
OGRID: 6137	New Ogrid: 14591
Name: Devon Energy Production Company, L.P.	New Name: Merit Energy Company
Address: 20 N. Broadway, Suite 1500	Address: 12222 Merit Drive, Suite 1500
Address:	Address:
City, State, Zip: Oklahoma City, Oklahoma 73102-8260	City, State, Zip: Dallas, Texas 75251
I hereby certify that the rules of the Oil Conservation Division form and the attached list of wells is true and complete to the New Operator Signature: Printed Name: Arlene Valliquette Title: Manager - Regulatory Affairs Date: 06/27/2002 Phone: (972)701-8377	best of my knowledge and belief.
Previos operator complete below:	NMOCD Approval
Previous	Jim W. Gum
Operator: Devon Energy Production Company, L.P.	Signature:
Previous	Printed
OGRID 6137	Name: District Sufervisor
12/1/11/1	
Signature Company	District:
Printed	് വേ
Name: Bradley Foster-Operations Mngr	Date:

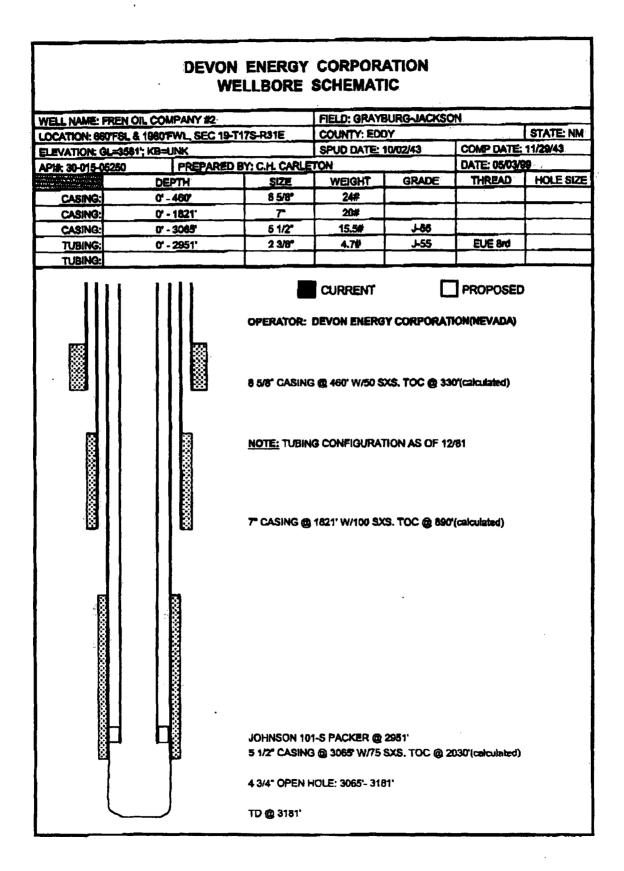


It is necessary that Form C-104 be approved before this form can be approved an an initial allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPLICATE.

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator. Fro m 011 Co mpan y	Lease
Address(Local or Field Office)	204 Hills Bldg., El Pass, Temps
Unit	
County Kind of Lease:	Government
If Oil well Location of Tanks St/4 Sec. 19-17	- 31E
Authorized Transporter. Texas - Now Mex ice Pipe J	Address of Transporter
Lece Hills, New Nest ice	Box # 1510, Midland, Texas (Principal Place of Business)
Per cent of Oil or Natural Gas to be Transported	
from this unit are	·
	%
REASON FOR FILING: (Please check proper box)	
NEW WELL.	CHANGE IN OWNERSHIP
CHANGE IN TRANSPORTER	OTHER (Explain under Remarks)
REMARKS: This well, originally producing from the Premier pay, to a total depth of 3116 f Ran 3065 feet of 52" easing and cements 7" casing.	'aat
The undersigned certifies that the Rules and Regulations	of the Oil Conservation Commission have been complied with.
Executed this the 2 ad day of	
	Fren Oil Company
OLL CONSERVATION COMMISSION By	By Max Enzinger Title Partner

Title



		V	Vell Mast	er			R D
API Well# 30	015 23934 00	00		Status,	Α	Status Dt	
Operator GL	EN PLEMONS			Туре	0	Prmt App	07/11/1994
Orig Op				Category		Prmt Exp	
Oriller				Cmpl	S	Spudded	12/31/9999
Well Nm FR	ESS FEDERAL		Well No 005	WI Permit		TD Rchd	12/31/999
	ESS FEDERAL		Well 140 000	医医毒素 独独 直门		Cmpltd	02/01/198
	IESS FEDERAL			Orig WI Type		Auth Trs	12/31/999
Basin				Orig Cat		1st Prod	02/01/198
Deep Frm				Lease/U	nit#	1st Inj	
				Curnt NA		PB Dt	
				Orig		Plug Pln	
				Mod Dt:	6/4/1995	P/A	12/31/999
				Multi- Lateral?		Measured	TVD
Master Well File	Comments	1 6	19 16 16 16 N	Const	Kick		
可能的技术				District 02	Plug Ba		0
				H2S Plan? Name	Logge	ers 0	99999

No Well Records