### CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: BARBARA FASKEN Well: WINGERD Wo. 2
Contact: CALL BROWN Title: FININGE Phone:
Operator: BARBARA FASKEN Well: WINGERD No. 2  Contact: CARC BROWN Title: FAKINGER Phone:  DATE IN 8:30 RELEASE DATE 9:14 DATE OUT 9:17:93
Proposed Injection Application is for: WATERFLOOD Expansion Initial
Original Order: R Secondary Recovery Pressure Maintenance
SENSITIVE AREAS X SALT WATER DISPOSAL
WIPP Capitan Reef Commercial Operation
Data is complete for proposed well(s)? X Additional Data
AREA of REVIEW WELLS
28 Total # of AOR / # of Plugged Wells
✓ Tabulation Complete  ✓ Schematics of P & A's
Cement Tops Adequate AOR Repair Required
INJECTION INFORMATION
Injection Formation(s) DEVONIAN 11777 TO 11,855  Source of Water GENOVA - DEVONIAN Compatible X
Source of Water GENOVA - DEVONIAN Compatible \( \square \)
PROOF OF NOTICE
Copy of Legal Notice Information Printed Correctly
Correct Operators Copies of Certified Mail Receipts
✓ Objection Received Set to Hearing Date
NOTES: DEVON WITHDREW 08T, AFTER DISCUSSION S/ PASKEN
APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL COMMUNICATION WITH CONTACT PERSON:
1st Contact: Telephoned Letter 9:10 Date Nature of Discussion DEVON ENGRGY OBJECTION  2nd Contact: X Telephoned Letter 9:13 Date Nature of Discussion "WITH DREN  3rd Contact: X Telephoned Letter 9:17 Date Nature of Discussion ADDITIONAL 55"-SDME FORMATION
2nd Contact: X Telephoned X Letter 9:13 Date Nature of Discussion WITH ORFN
3rd Contact: Telephoned Letter / / Date Nature of Discussion AUU/ 710N/91- 3 - SAME FORMANIO

## JIL COULT VATION DIVISION POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87501

FORM C-108
Revised 7-1-87 7 D

APPLIC	ATION FOR AUTHORIZATION TO INJECT
I.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Xyes Inno
II.	Operator: Barbara Fasken
	Address: 303 W. Wall, Suite 1900, Midland, TX 79701
	Contact party: Carl W. Brown Phone: (915) 687-1777
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?
٧.	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 geological data on the injection zone including appropriate lithologic detail, geological 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 source known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
х.	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 source 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: Carl W. Brown Title Petroleum Engineer
	Signature: Carl W. Brown Date: 8-25-93
submi	ne information required under Sections VI, VIII, X, and XI above has been previously itted, it need not be duplicated and resubmitted. Please show the date and circumstance ne 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

- (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 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, P. O. Box 2088, Santa Fe, New Mexico 87501 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.



20 North Broadway, Suite 1500 Oklahoma City, Oklahoma 73102-8260

OIL CONSERVED

RECT VED

Telephone: 405/235-36154

1260 FAX 406/5524650 5

September 7, 1993

New Mexico Oil Conservation Division P.O. Box 2088 State Land Office Building Santa Fe, New Mexico 87501

Re: Application for Authorization

to Inject

Wingerd No. 2

1,980' FNL & 660' FEL Section 24-12S-37E

Gladiola Field

Lea County, New Mexico

#### Gentlemen:

Devon Energy Corporation (Nevada) ("Devon") is in receipt of Barbara Fasken's referenced Application for Authorization to Inject into the Devonian and Mississippian formations. Fasken's proposed injection site is within one-half mile of the Devon operated Shults #1 located 330' FSL and 1,650' FEL of Section 13-12S-37E. The Shults #1 currently produces from an equivalent Devonian section and is downdip to the Wingerd #2 by approximately 59 feet.

Approval of Fasken's application as to the Devonian formation could run the risk of "watering out" the Shults #1 by the injected water. In that regard, Devon must necessarily object to Fasken's application as it pertains to the Devonian formation, but we would not oppose approval of the application allowing injection into the Mississippian formation.

New Mexico Oil Conservation Division September 7, 1993 Page -2-

Please feel free to contact the undersigned at 405-552-4633 if there are any questions.

Yours very truly,

**DEVON ENERGY CORPORATION (NEVADA)** 

Ken Gray

District Landman

KG:mb\WINGERD

cc: Barbara Fasken

303 W. Wall, Suite 1900 Midland, TX 79701 Attn: Carl W. Brown

- VI. Table of wells within area of review and schematics of P&A wells is attached.
- VII. 1. Average Daily Rate: 2500 BWPD Maximum Daily Rate: 5000 BWPD
  - 2. Closed System

Average Pressure: Vacuum initially

- 3. Maximum Pressure: 500 PSI
- 4. Water Sources: Gladiola-Devonian produced water.
- 5. Chemical analysis of Mississippian formation water attached.
- VIII. The proposed injection zone is the Mississippian age limestone at a depth of approximately 11,100' with a gross thickness of +/-700, and the Devonian age dolomite at a depth of approximately 11,775' with a gross thickness of +/- 250'.

Fresh water aquifer at this site is the Ogalalla found from near surface to a depth of 300'.

- IX. Propose to stimulate the existing perforations 11142-11800 overall with 8,000 gallons 15% HCL acid.
- X. Logs have been filed with OCD.
- XI. Chemical analysis of fresh water wells is attached.
- XII. Applicant attests that a thorough examination has been made of all available geologic, engineering, and well data and that no hydorlogic connection exists between the proposed injection interval and the overlying fresh water aguifer.
- XIII. Proof of Notice in area newspaper will be forwarded under separate cover.

#### INJECTION WELL DATA SHEET

OPERATOR		Wingerd		
2	_	E <b>ASE</b>	T21S	R37E
WELL NO.	1980' FNL, 660' FEL FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Schem	atic	<u>Tubu la</u>	- Data	
		Surface Casing		
711		Size <u>13-3/8</u> C	emented with500	sx.
		TOC Surface feet	determined by Circul	ation
		Hole size		
	13-3/8" @ 334'	Intermediate Casing	4.75	1
	13 3/6 6 334	Size <u>9-5/8</u>	emented with150	lst stg. Sx. 2nd
	DV in 9-5/8" @ 2308'	TOC feet o	letermined by <u>Temp</u> .	Survey
		Hole size $12\frac{1}{2}$ "		
		Long string		
	9-5/8" @ 4674"	Size7	Cemented with 935	sx.
4	Sqd. Csg. Lk. 5397-6485' w/	700 - 7090 feet of	determined by Temp.	Survey
	sx Class "C", cmt. circ.	Hole size8-3/4"		
	Perf 11142-150', 11158-168'	Total depth11855'		
	Perf 11142-150', 11158-168' 11192-222' (Mississipp	(Prop	osed)	
(A)	PBTD 11690' CIBP @ 11725' w/35' cmt.	(perforated or open-hole NOTE: CIBP @ 1		
	Perf 11777-800' (Devonian) -855' 7" @ 11855' PBTD 11690'			
roposed bing size3	3½"lined wi			set in a
coposed3 Otis Permalato		(material)		set in a
Otis Permalato		(material)		
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## Barbara Fasken Wingerd No. 2 Application for Authorization to Inject Gladiola Field Lea County, New Mexico

#### Wells Within Area of Review

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Devon Energy Corp. #1 John Schults
                                                                011
Unit 0, 330' FSL 1650' FEL S13 T12S R37E
Compl. 7-30-51 TD 9917'
Perfs: 9555'-9605' Wolfcamp
Deepened 6-17-57 TD 12090' (9555'-9605' Squeezed) Set 4-1/2" Liner
Perfs: 11848-888' Devonian
 <u> Ho1 e</u>
            Csg.
                           Depth
                                       Cmt.
12-1/4"
           13-3/8"
                             342'
                                      375 sx
11"
            8-5/8"
                            4421'
                                     1700 sx
7-3/4"
            5-1/2"
                            99171
                                      800 sx
4-3/4"
            4-1/2" liner 12090'
                                      700 sx (Top liner 9582')
Atlantic Richfield Company #4 John Shults
                                                                011
Unit P, 330' FSL 880' FEL S13 T12S R37E
Compl. 10-31-53 TD 11954'
Perfs: 11890'-11935' Devonian
 <u> Ho1 e</u>
                           Depth
                                       Cmt.
            Csa.
17-1/2"
           13-3/8"
                             3381
                                      350 sx
13-3/8"
            9-5/8"
                            4449'
                                     1200 sx
8-3/4"
            5-1/2"
                           11954'
                                      800 sx
P & A 6-19-71 Schematic attached.
Smith and Marrs, Inc. #2 John Shults
                                                                011
Unit P, 330 FEL 660' FSL S13 T12S R37E Compl. 12-19-51 TD 9698'
Perfs: 9600'-9620' Wolfcamp
OWWO: 1-15-69 CIBP @ 9080' Perf 8975'-9020' L. Abo TA'd unsuccessful
OWWO: 4-23-73 Sgz. L. Abo perfs. DO & set CIBP 9570' Perf 9492'-9530'
       Wolfcamp
 Hole
            Csa.
                           Depth
                                       Cmt.
  17"
           12-3/4"
                             316'
                                      325 sx
  11"
            8-5/8"
                            44221
                                     1500 sx
            5-1/2"
8-3/4"
                            96981
                                      800 sx
Filed Notice of Intent to Plug 5-8-91, work not yet performed.
Pan American #3 Wingerd
                                                                <u>0il</u>
Unit A, 660' FNL 660' FEL S24 T12S R37E
Compl. 3-13-52 TD 9820'
Perf: 9607'-9618' Wolfcamp
 Hole
                                       Cmt.
            Csq.
                           Depth
           13-3/8"
17-1/4"
                             314'
                                      500 sx
12-1/4"
            9-5/8"
                            4481
                                      600 sx
            7"<sup>°</sup>
8-3/4"
                            97971
                                      300 sx
P & A 1-26-68 Schematic Attached.
```

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Barbara Fasken #5 Wingerd
                                                               <u>0il</u>
Unit A, 660' FNL 460' FEL S24 T12S R37E
Compl. 9-30-52 TD 11905'
Open Hole 11845'-11905' Devonian
OWWO: 9-6-67 Perf. 11814-822'
      1-24-74 CIBP @ 11770' Perf. 9412'-9560' Wolfcamp
OWWO:
OWWO: 2-18-80 Sqz. 9412'-9560', DO to 11905', CIBP @ 11835'
 <u>Hol</u>e
            Csq.
                          <u>Depth</u>
                                      Cmt.
17-1/2"
           13-3/8"
                            3461
                                     500 sx
            9-5/8"
                                     660 sx DV @ 2214'
12-1/2"
                           4504
8-3/4"
             7"
                          11845
                                     600 sx
Wadi Petroleum #1 Brownfield "A"
                                                               011
Unit B, 660' FNL 1980' FEL S24 T12S R37E
Compl. 9-20-50 TD 12035'
Perf. 12004-1/2'-12034' Devonian
OWWO: 10-1-50 CIBP @ 11901' Perf. 11785-840'
                                                 Devonian
 Hole
            Csa.
                          Depth
                                      Cmt.
           13-3/8"
17-1/2"
                                     400 sx
                            351'
12-1/4"
            9-5/8"
                           46061
                                    1200 sx
8-3/4"
            5-1/2"
                                    1270 sx
                          12035'
McAlester Fuel Co. #2 Brownfield "A"
                                                               <u>0il</u>
Unit B, 660' FNL 1780' FEL S24 T12S R37E
Compl. 4-4-51 TD 10330'
Perf. 9565'-9600' Wolfcamp
                             Perf. 9361'-9513', Well TA'd
OWWO: 11-2-60 CIBP @ 9525'
OWWO: 5-14-61 DO to 10160' Perf. 9513'-10048', Well TA'd
 Hole
            Csq.
                          Depth
                                      Cmt.
17-1/2"
           13-3/8"
                            335'
                                     400 sx
12-1/4"
            9-5/8"
                           4436'
                                    1400 sx
7-7/8"
            5-1/2"
                          10312'
                                     820 sx
P & A 3-27-63 Schematic Attached.
                                                              D&A
Stanolind Oil and Gas Co. #1 Lois Wingerd
Unit F, 1980' FNL 330' FEL S24 T24S R37E
Compl. 6-4-51 TD 12111'
Perf. 9560'-10340' Sgzd.
Perf. 9415'-9540'
 <u>Hole</u>
            Csg.
                          <u>Depth</u>
                                      Cmt.
17-1/4"
           13-3/8"
                            341'
                                      300 sx
12-1/4"
            9-5/8"
                           46731
                                      550 sx
8-3/4"
            7"
                                      375 sx
                          104121
P & A 8-6-51 Schematic Attached.
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McAlester Fuel Co. #1 Brownfield "B"
                                                              <u>0il</u>
Unit G, 1650' FNL 1650' FEL S24 T12S R37E
Compl. 5-23-52 TD 11985'
Perf. 11815'-11845' Devonian
OWWO: 9-21-69 CIBP 10330' Perf 10282-298'
                                              Penn.
OWWO: 1-20-70 CIBP 10000' Perf 9310'-9584' TA'd w/18' cmt. on pkr. @ 9270'
 <u>Hole</u>
            Csq.
                          Depth
                                      Cmt.
18-1/2"
           13-3/8"
                            3651
                                     400 sx
12-1/4"
            9-5/8"
                           44731
                                    1968 sx
8-3/4"
            5-1/2"
                          11980'
                                    1235 sx
P & A 7-26-71 Schematic Attached.
McAlester Fuel Co. #2 Brownfield "B"
                                                               D&A
Unit G. 1750' FNL 1650' FEL S24 T12S R37E
Compl. 7-31-52 TD 10345'
Perf. 9572-93' Wolfcamp
       4-5-60 Sqz. perfs 9572-93' DO to 10323'. Perf. 10295'-10310' No Show.
OWWO:
       CIBP @ 9510', Perf. 9457-79' No show. Pkr. @ 9445' w/50 sx cmt. PBTD
       88401
 Hole
            Csa.
                          Depth
                                      Cmt.
17-1/2"
           13-3/8"
                            3671
                                     400 sx
                           44741
12-1/4"
            9-5/8"
                                    1657 sx
            5-1/2"
8-3/4"
                          10345'
                                     674 sx
P & A 4-1-63 Schematic Attached.
Pan American Petroleum Corp. #7 Wingerd
                                                               011
Unit H, 1980' FNL 990' FEL S24 T12S R37E
Compl. 7-24-53 TD 9820'
Perf. 9580-94' Wolfcamp
OWWO: 10-14-63 Spot 25 sx across perfs 9580-94'. Perf. 5220-30', 5538-78'.
       CIBP @ 5250', sqz. 5220-30' w/100 sx. Cmt. ret. @ 5195'. Perf. 5104-12'
       cmtd. behind csg. w/72 sx. DO and perf. 5170'-5204' San Andres.
                          Depth
                                      Cmt.
 <u>Hole</u>
            Csa.
           13-3/8"
18"
                            312'
                                     360 sx
12-1/4"
            9-5/8"
                           44791
                                     690 sx
7-7/8"
            5-1/2"
                           98201
                                     372 sx
P & A 1-11-68 Schematic Attached.
Barbara Fasken #6 Wingerd
                                                               <u>0il</u>
Unit I, 660' FEL 1980' FSL S24 T12S R37E
Compl. 7-13-53 TD 12035'
Perf. 11900-940' Devonian
      12-2-58 Set cmt. ret. @ 11880' sqz. 11900-940'. Perf. 11835-860'
OWWO:
       Devonian
       4-3-63 PB to 11850' sqz. 11835-60' w/100 sx. Perf. 11830-840' Devonian
OWWO:
 <u>Hole</u>
                          Depth
                                      Cmt.
            Csa.
17-1/2"
           13-3/8"
                            321'
                                     355 sx
12-1/4"
            9-5/8"
                           4500'
                                     540 sx
                                              DV @ 2280' w/150 sx
              7"
8-3/4"
                          12034
                                     630 sx
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Pan American Petroleum Corp. #9 Wingerd
                                                               011
Unit I, 2210' FSL 890' FEL S24 T1ŽS R37E
Compl. 11-4-53 TD 9820'
Perf. 9589'-9603' Wolfcamp
OWWO: 8-16-55 Cmt. Ret. @ 9585'. Perf. 9386'-9568'
                                                        Wolfcamp
Hole
            Csa.
                          Depth
                                      Cmt.
17-1/2"
           13-3/8"
                            2931
                                      325 sx
12-1/4"
            9-5/8"
                           44881
                                      690 sx
              7"
8-3/4"
                           98731
                                      300 sx
P & A 12-29-67 Schematic Attached.
Pan American Petroleum #11 Wingerd
                                                               011
Unit J, 2110' FSL 1650' FEL S24 T12S R37E
Compl. 5-23-54 TD 9823'
Perf. 9575-97' Wolfcamp
                                       Cmt.
<u>Hole</u>
                          Depth
            Csg.
17-1/2"
           13-3/8"
                            3261
                                      325 sx
12-1/4"
            9-5/8"
                           4515'
                                      690 sx
8-3/4"
              7"
                           98121
                                      300 sx
P & A 1-10-68 Schematic Attached.
Barbara Fasken #10 Wingerd
                                                               011
Unit J, 2310' FSL 1650' FEL S24 T12S R37E
Compl. 4-17-54 TD 12016'
Perf. 11641'-11872' Devonian
OWWO: 2-3-58 add Perfs. 11904-53'
OWWO: 6-24-60 Cmt. ret. @ 11890' Att. sqz. 11904-53' communicated w/hole
OWWO: 5-1-73 Cmt. ret. @ 11792' Sqz. below w/50 sx left 62' cmt. on ret. PBTD
       11730'
<u>Hole</u>
            Csa.
                          <u>Depth</u>
                                       Cmt.
17-1/2"
           13-3/8"
                            315'
                                      325 sx
            9-5/8"
12-1/4"
                           44931
                                      540 sx
                                                DV @ 2275' w/150 sx
7-7/8"
            5-1/2"
                          12015'
                                      640 sx
Fina Oil and Chemical Co. #12 Wingerd
                                                               011
Unit 0, 990' FSL 1650' FEL S24 T12S R37E
Compl. 9-1-55 TD 11987'
Perf. 11865'-11900' Devonian
OWWO: 3-16-91 CIBP 10710'. Perf. 10662-702' Cisco swab wtr. Perf. 9517'-9820'
       Wolfcamp. Set cmt. ret. @ 10630', attempt sqz. w/100 sx, tbg. stuck, left
       fish in hole, TOF 10189'. TA'd well.
                          Depth
                                       Cmt.
 <u>Hole</u>
            Csa.
17-1/2"
           13-3/8"
                            300'
                                      325 sx
12-1/4"
            8-5/8"
                           4500'
                                      690 sx
                                                DV @ 2312' w/100 sx
7-7/8"
            5-1/2"
                          11986'
                                      600 sx
P & A 5-4-93 Schematic Attached.
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Barbara Fasken #13 Wingerd
                                                                    011
Unit P, 990' FSL 660' FEL S24 T12S R37E
Compl. 10-24-56 TD 12945' PBTD 11975'
Attempt Ellenburger Compl. Perf. 12721-736', cmt. ret. 12529' w/100 sx, perf.
12450-70', cmt. ret. 12210' w/150 sx, perf. 12318-32', cmt. ret. 12240' w/100 sx,
perf. 12200-18', cmt. ret. 12148' w/100 sx, perf. 12006-020', CIBP @ 11990' w/2
sx cmt.
Perf. 11862-898' Devonian
OWWO: 4-26-84 CIBP @ 11791'. Perf. Miss. 11192-232' tstd. wtr.
OWWO: 6-7-84 Sqz. 11192-232' w/250 sx (165 in fm.) DO cmt. & CIBP @ 11791'.
       Return well to Devonian production.
Hol e
             Csg.
                            Depth
                                          Cmt.
            13-3/8"
17-1/2"
                               318'
                                         380 sx
12-1/4"
             9-5/8"
                              46001
                                        1500 sx
8-3/4"
             5-1/2"
                             129451
                                        1100 sx
                                                                    011 & SWD
Amoco Production Corp. #8 Wingerd
Unit P, 660' FSL 660' FEL S24 T12S R37E
Compl. 9-20-53 TD 9818'
Perf. 9610-36' Wolfcamp
OWWO: 10-61 Converted well to SWD thru perfs. 9610-36' by Commission order R-
       2019 7-13-61.
                             <u>Depth</u>
                                          Cmt.
<u>Hole</u>
             Csa.
17-1/2"
            13-3/8"
                                         225 sx
                               323'
12-1/4"
             9-5/8"
                              44951
                                         590 sx
               7"
8-3/4"
                              98181
                                         300 sx
P & A 6-14-71 Schematic Attached.
Atlantic Richfield Co. #1 Rosa Shults
                                                                    011
Unit M, 330' FSL 330' FWL S18 T12S R38E
Compl. 4-28-53 TD 12217'
Perf. 9480'-9530' Wolfcamp
OWWO: 11-1-57 Sqz. 9480'-9530'. DO to 12010'. Perf. 11970-88' Devonian.
OWWO: 4-1-62 Cmt. ret. @ 10280' Sqzd. 11970-88' w/90 sx. Cut and pulled 8825' 5-1/2" csg. Spot 85 sx cmt. 8575'-8830'. D0 to 8647'. Set Whipstock and drld. to TD 12006' (TVD 11956'). Ran and cmtd. 5-1/2" csg. @ 12006' w/250
       sx, TOC 10980'. Perf. 11994-998' Devonian PBTD 12000'.
 Hole
             Csg.
                             Depth
                                          Cmt.
17-1/2"
            13-3/8"
                                         300 sx
                               315'
12-1/4"
             9-5/8"
                                        1500 sx
                              44431
8-3/4"
             5-1/2"
                             12006'
                                         250 sx
P & A 5-2-69 Schematic Attached.
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Gulf Oil Corp. #5 Lea "AV" State
                                                                <u>0i1</u>
Unit C, 990' FNL 1650' FWL S19 T12S R38E
Compl. 8-26-57 TD 11954'
Perf. 11902-952' Devonian
Hol e
            Csa.
                          Depth
                                       Cmt.
           13-3/8"
17-1/4"
                            265'
                                      450 sx
12-1/4"
            8-5/8"
                            4550
                                     1840 sx
7-7/8"
            5-1/2"
                          11954'
                                     1710 sx
P & A 4-18-77 Schematic Attached.
Brothers Production Co. #1 Lea "AV" State
                                                               <u>0il</u>
Unit D, 660' FNL 660' FWL S19 T12S R38E
Compl. 8-5-52 TD 11974'
Perf. 11933-971' Devonian
OWWO: 9-25-71 PB to 9702' Perf. 9414'-9588'
                                                 Wolfcamp
 Hole
            Csa.
                          <u>Depth</u>
                                       Cmt.
17-1/4"
           13-3/8"
                            368'
                                      500 sx
12-1/4"
            9-5/8"
                           4500'
                                     1825 sx
8-3/4"
              7"
                          11974'
                                     1350 sx
Gulf Oil Corp. #3 Lea "AV" State
                                                               011
Unit D, 660' FNL 330' FWL S19 T12S R38E
Compl. 5-20-53
Perf. 9385'-9590' Wolfcamp
OWWO: 4-28-55 Repaired csg. 1k. 6771'-6802'. Sqzd. w/130 sx, DO, return to
       prod.
 Hole
            Csq.
                          Depth
                                       Cmt.
17-1/2"
           13-3/8"
                            3531
                                      450 sx
            9-5/8"
12-1/4"
                            45031
                                     3280 sx
              7"
8-3/4"
                           95971
                                      275 sx
P & A 6-30-61 Schematic Attached.
Brothers Production Co. #2 Lea "AV" State
                                                                 <u>0il</u>
Unit E, 330' FWL 1980' FNL S19 T12S R38E
Compl. 5-2-53 TD 11955'
Open hole 11885'-11955' Devonian
OWWO: 10-22-62 CIBP @ 11800' w/2 sx cmt. Perf. 11758'-11770' (Miss.) No show
       oil or gas. CIBP @ 9645' w/2 sx cmt. PBTD 9635'. Perf 9400'-9588'
       Wolfcamp.
                          Depth
 <u> Hole</u>
            Csa.
                                       Cmt.
           13-3/8"
17-1/4"
                             376'
                                      500 sx
12-1/4"
            9-5/8"
                           45201
                                     2282 sx
8-3/4"
                          118851
                                     610 sx
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Brothers Production Co. #4 Lea "AV" State
                                                                <u>0il</u>
Unit F, 1980' FNL 1980' FWL S19 T12S R38E
Compl. 9-12-57 TD 12,000'
Perf. 11960-997' Devonian
OWWO: 11-7-71 CIBP @ 11700' w/14' cmt. CIBP 9636'. Perf. 9442'-9576' Wolfcamp
                                       Cmt.
 Ho1e
            Csa.
                          Depth
17-1/4"
           13-3/8"
                            267'
                                      400 sx
  11"
            8-5/8"
                           45331
                                     1940 sx
7-7/8"
            5-1/2"
                          120001
                                     1600 sx
Amoco Production Co. #1 State B-19
                                                               011
Unit K, 2310' FSL 1650' FWL S19 T12S R38E
Compl. 5-27-57 TD 11982'
Perf. 11958-968' Devonian
 Hole
                                       Cmt.
            Csa.
                          Depth
17-1/4"
           13-3/8"
                             3421
                                      350 sx
  11"
            8-5/8"
                           46331
                                      650 sx
            5-1/2"
                          11982'
7-7/8"
                                     1200 sx
P & A 9-13-71 Schematic Attached.
Pan American Petroleum Corp. #2 Houston "A"
                                                               <u>0i1</u>
Unit L, 2110' FSL 330' FWL S19 T12S R38E
Compl. 4-27-54 TD 9816'
Perf. 9470'-9536' Wolfcamp
 Hole
            Csa.
                          <u>Depth</u>
                                       Cmt.
17-1/2"
           13-3/8"
                             3031
                                      325 sx
                                      590 sx
12-1/4"
            9-5/8"
                           44901
8-3/4"
            5-1/2"
                           98061
                                      370 sx
P & A 12-1-67 Schematic Attached.
Petro Oil Company, L.P. #1 Houston "A"
                                                               011
Unit L, 2310' FSL 330' FWL S19 T12S R38E
Compl. 11-17-53 TD 11960'
Open hole 11921-960' Devonian
OWWO: 10-14-58 Perf. 11874-890' Devonian
OWWO: 1-6-59 CIBP @ 11905'
       7-27-59 Cmt. ret. 11850' sqz. 11874-890' w/200 sx. D0 to 11900'.
OWWO:
       Reperf. 11875-885' Devonian
 <u>Hole</u>
                                       Cmt.
            Csa.
                          Depth
17-1/2"
           13-3/8"
                             324'
                                      255 sx
12-3/4"
            9-5/8"
                           4514'
                                      440 sx
8-3/4"
                                     1260 sx
              7"
                          11921'
P & A 9-6-87 Schematic Attached.
```

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Pan American Petroleum Corp. #1 Houston "B"
                                                                    <u>011</u>
Unit M, 990' FSL 330' FWL S19 T12S R38E Compl. 2-10-54 TD 9820' PBTD 9575'
Perf. 9498'-9556' Wolfcamp
OWDO: 1-29-57 Drilled to new TD 11971'. Set 5" liner 9140'-11971'. Perf 11908-
       953' Devonian
OWWO: 8-1-69 CIBP @ 11700'. Perf. Penn 10004-176'. No shows.
Hole
            <u>Csg.</u>
13-3/8"
                            Depth
                                         Cmt.
17-1/2"
                              301'
                                         325 sx
12-1/4"
             9-5/8"
                             4461'
                                         690 sx
8-3/4"
                             98081
                                         300 sx
            5" liner
NR
                          9140'-11971' 200 sx
P & A 8-15-69 Schematic Attached.
```

# Barbara Fasken Wingerd No. 2 Gladiola Field Lea County, New Mexico Application for Authorization to Inject

#### MAIL LIST

Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501

Oil Conservation Division P.O. Box 1980 Hobbs, NM 88240

#### Surface Owner

Dean Kinsolving P.O. Box 325 Tatum, NM 88267 Cert. # P 684 781 923

#### Leasehold Operators Within One-Half Mile

W/2 of NE/4 Sec. 24 T12S R37E Wadi Petroleum, Inc. 1440 S. Walters Road, Suite 400 Houston, TX 77014

Cert. # P 684 781 924

E/2 of W/2 Sec. 24 T12S R37E Amoco Production Co. 501 Westlake Park Blvd. Houston, TX 77079

Cert. # P 684 781 925

SE/4 Sec. 13 T12S R37E and S/2 of SW/4 Sec. 18 T12S R38E Devon Energy Corporation 20 North Broadway, Suite 1500 Oklahoma City, OK 73102

Cert. # P 684 781 926

NW/4 Sec. 19 T12S R38E Brothers Production Co., Inc. 407 N. Big Spring, Suite 103 Midland, TX 79701

Cert. # P 684 781 927

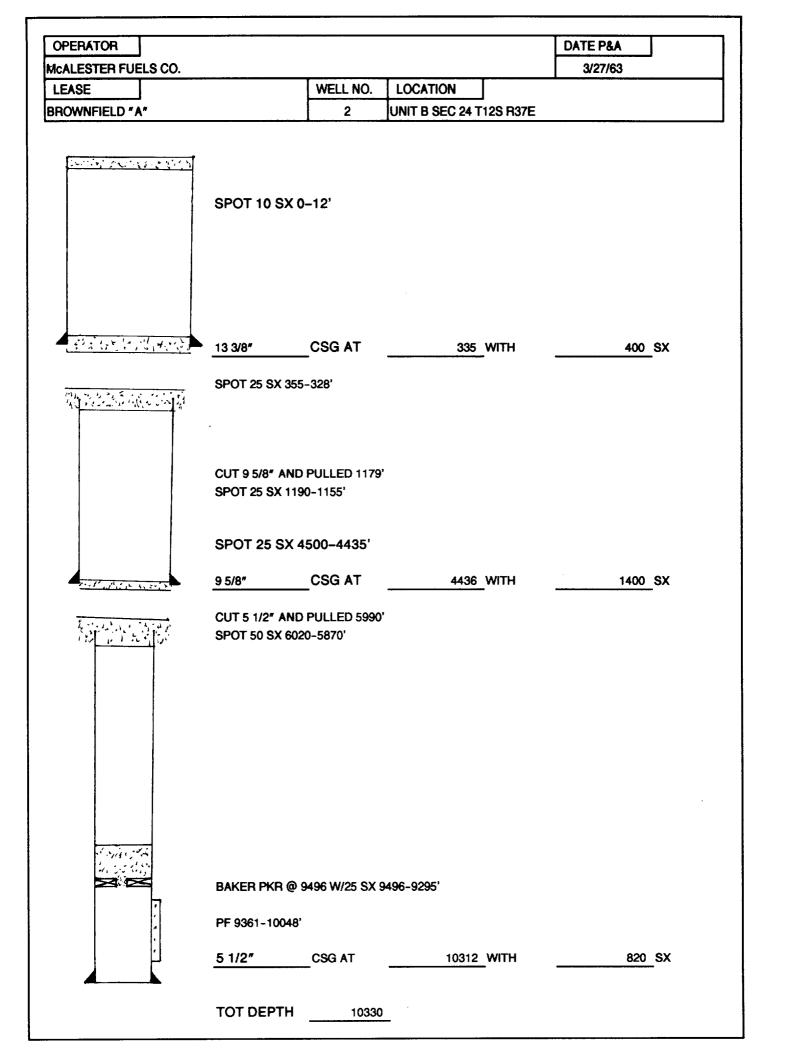
NE/4 of SW/4 Sec. 18 T12S R38E Yates Petroleum Corporation 105 S. Fourth St. Artesia, NM 88210

Cert. # P 684 781 928

 $\underline{\text{NW/4}}$  of  $\underline{\text{SW/4}}$  and  $\underline{\text{S/2}}$  of  $\underline{\text{SW/4}}$   $\underline{\text{Sec. 19}}$   $\underline{\text{T12S}}$   $\underline{\text{R38E}}$   $\underline{\text{Unleased}}$ 

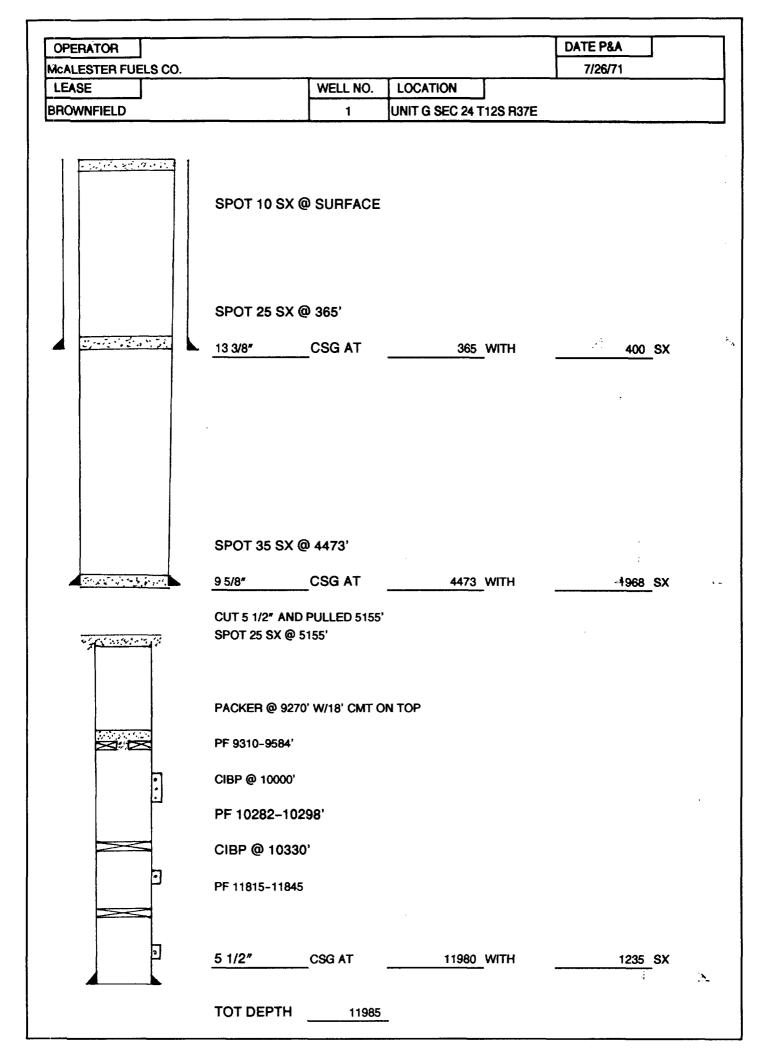
OPERATOR					DATE P&A	
ATLANTIC RICHFIELD CO.					6/19/71	
LEASE		WELL NO.	LOCATION			
JOHN SHULTS		4	UNIT P SEC 13 T	12S R37E		i
ವರ್ಷ ವರ್ಷಕ್ರಿ ಕಾರ್ಯವಾಗ್ರ -	SPOT 10 SX P 9#/GAL SALT (		RFACE FT BETWEEN A	ALL PLUGS		
2012 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 3/8″	CSG AT	338	_WITH	SX	
	SPOT 30 SX 358-	-318				
	CUT 9 5/8" AND SPOT 40 SX 1066				ej.	
	9 5/8"  CUT 5 1/2" AND SPOT 40 SX 4522			_WITH	1200_SX	
	CIBP @ 10508 W PF 11890-11935 5 1/2"	// 5 SX _CSG AT _11954	11954	_with	<u>800</u> SX	

OPERATOR					DATE P&A	
PAN AMERICAN PETROLEUN	A CORP.				1/26/68	
LEASE		WELL NO.	LOCATION			
WINGERD		3	UNIT A SEC 24 T12	S R37E		
	SPOT 10 SX PI	LUG AT SUF	IFACE			
Control of State	13 3/8"	CSG AT	314_W	птн .	500	.sx
	SPOT 25 SX IN &	OUT OF 13 3/	8" @ 314'			
	CUT 9 5/8" AND 1 SPOT 25 SX IN &		' STUB			
	9 5/8"	CSG AT	4481_W	птн .	600	sx
	CUT 7" AND PUL SPOT 25 SX IN &		rUB			
	SPOT 30 SX 9700 PF 9607-9618 7" TOT DEPTH	0-9600 CSG AT 9820	9797_W	ITH .	300	sx



PERATOR				<u> </u>	TE P&A
ILF OIL CO. EASE		WELL NO.	LOCATION		4/18/77
A "AV" STATE		5	UNIT C SEC 19 T1	2S R38F	
55845075540	SPOT 20 S	X @ 61'-SURF	ACE		
14 4 CON 197		CSG AT ND PULLED 2486 ACROSS 5 1/2" S		VITH	450 SX
			1/2" CSG CUT @ 429 SS 5 1/2" CSG CU 4550_v	JT @ 4489'	1840 SX
	CIBP @ 920 PF +/- 9400 PB @ 9722' PF 11902-119		T ON TOP		
1					

OPERATOR	<u> </u>	<del> </del>			DATE P&A	
STANOLIND OIL AND GAS CO	O.				8/6/51	
LEASE		WELL NO.	LOCATION			
LOIS WINGERD		1	UNIT F SEC 24 T	12S R37E		f 
To the fire out of high energy of	SPOT 15 SX @	SURFACE				
19 to 12, 14, 15, 15, 15th		CSG AT	341	WITH	300	sx
Table (18 18 18 18 18 18 18 18 18 18 18 18 18 1	SPOT 20 SX @ 32  CUT 9 5/8" AND I  SPOT 20 SX 1265	PULLED 1265'				
200200500	SPOT 15 SX @ 9 5/8"	4673' CSG AT	4673	WITL	550	ev
Part of the second	CUT 7" AND PUL SPOT 20 SX @ 5	LED 5157'	4073		330	
•	PF 9415-9540' SPOT 20 SX 99 PF 9530-10340' S PBTD 10358'	940-9934' (E	BY NMOCD REC	CORDS)		
	7" TOT DEPTH	CSG AT	10412	WITH	325	sx



OPERATOR					DATE P&A	
ICALESTER FUELS CO.					4/1/63	
LEASE		WELL NO.	LOCATION		<u> </u>	
ROWNFIELD		2	UNIT G SEC 24 T1	2S R37E		· · · · · · · · · · · · · · · · ·
Marie on Survey of the Solid of	SPOT 10 SX @	SURFACE				
	SPOT 25 SX @	370–338				
The state of the s	13 3/8"	CSG AT	367_\	with _	400	sx
CARTA CARRELLA	CUT 9 5/8" AND 9 SPOT 25 SX @ 76					
	CUT 5 1/2" AN SPOT 25 SX @ 9 5/8"			with	<sup>√</sup> 1657	SX
	PF 9457-9479° CIBP @ 9510' PF 9572-9593, Se	, QZD	ON TOP, PBTD 89			
	5 1/2"	CSG AT	10345 \	NITH	674	SX

OPERATOR					DATE P&A	
P'AN AMERICAN PETROLEUI	M CORP.				1/11/68	
LEASE		WELL NO.	LOCATION			
WINGERD		7	UNIT H SEC 24	T12S R37E		
A Secretary Control	SPOT 10 SX @	SURFACE				·
	SPOT 25 SX IN	& OUT OF	13 3/8″			
型特別公外性的特	13 3/8"	CSG AT	312	_WITH	360_SX	***
<del>Translations</del>	CUT 9 5/8" AND SPOT 25 SX IN &		В			
	CUT 5 1/2" AN SPOT 25 SX IN 9 5/8"		STUB	_wітн	<u></u> 690_SX	
(100 ) (°(1)	SPOT 20 SX 5175	5-5100				
	PF 5104-12 BLO	CK SQZ CSG	W/75 SX			
16 C 16	PF 5170-5204'					
<b> </b>	PF 5220-5230', S	GQZD W/100 S	×			
	CIBP @ 5250'					
	PF 5538-5578	1				
	CIBP @ 9510'					
	SPOT 25 SX CMT	TACROSS PE	RFS 9580-94'			
	PF 9580-9594'					
	5 1/2"	CSG AT	9820	_WITH	372 SX	
	TOT DEPTH	9820	<u>.                                    </u>		•	

OPERATOR					DATE P&A	
PAN AMERICAN PETROLEU	M CORP.				12/29/67	<u> </u>
LEASE		WELL NO.	LOCATION			
WINGERD		9	UNIT I SEC 24 T1	2S R37E		
	SPOT 10 SX @	@ SURFACE				
	SPOT 25 SX II	N & OUT OF	13 3/8″ @ 300′			
CHICK THE STORY	13 3/8"	_CSG AT	293	WITH	325	sx
	CUT 9 5/8* AND SPOT 25 SX IN 8					
			9 5/8″ @ 4499'			
	9 5/8"	_CSG AT	4488	WITH	690	SX
	CUT 7" AND PU SPOT 25 SX IN 8		TUB			
	SPOT 50 SX 9	9585–9300'				,
F	PF 9386-9568	3'				
	CMT RET @ 958	35'				
	PF 9589-9603'					
1 4	7″	CSG AT	0070	WITH		SX

OPERATOR						
LEASE   WELL NO.   LOCATION   11   UNIT J SEC 24 T12S R37E	OPERATOR				DATE P&A	
SPOT 10 SX @ SURFACE  SPOT 25 SX IN & OUT OF 13 3/8"  13 3/8" CSG AT 326 WITH 325 SX  CUT 9 5/8" AND PULLED 700' SPOT 25 SX IN & OUT OF 9 5/8" \$ STUB  SPOT 20 SX IN & OUT OF 9 5/8" \$ STUB  SPOT 20 SX IN & OUT OF 9 5/8" \$ 4529' 9 5/8" CSG AT 4515 WITH 690 SX  CUT 7" AND PULLED 4700' SPOT 25 SX IN & OUT OF 7" STUB  SPOT 25 SX IN & OUT OF 7" STUB		I CORP.	<b>,</b>	* ****	1/10/68	
SPOT 10 SX @ SURFACE  SPOT 25 SX IN & OUT OF 13 3/8"  13 3/8" CSG AT 326 WITH 325 SX  CUT 9 5/8" AND PULLED 700' SPOT 25 SX IN & OUT OF 9 5/8" STUB  SPOT 20 SX IN & OUT OF 9 5/8" @ 4529' 9 5/8" CSG AT 4515 WITH 690 SX  CUT 7" AND PULLED 4700' SPOT 25 SX IN & OUT OF 7" STUB  SPOT 40 SX 9785-9550' PF 9575-9692'			-	<del>†</del>		
SPOT 10 SX @ SURFACE  SPOT 25 SX IN & OUT OF 13 3/8"  13 3/8" CSG AT 326 WITH 325 SX  CUT 9 5/8" AND PULLED 700' SPOT 25 SX IN & OUT OF 9 5/8" STUB  SPOT 20 SX IN & OUT OF 9 5/8" @ 4529' 95/8" CSG AT 4515 WITH 690 SX  CUT 7" AND PULLED 4700' SPOT 25 SX IN & OUT OF 7" STUB  SPOT 40 SX 9785-9550' PF 9575-9692'	WINGERD		11	UNIT J SEC 24 T12S R37E		
13 3/8" CSG AT 326 WITH 325 SX  CUT 9 5/8" AND PULLED 700' SPOT 25 SX IN & OUT OF 9 5/8" STUB  SPOT 20 SX IN & OUT OF 9 5/8" @ 4529' 9 5/8" CSG AT 4515 WITH 690 SX  CUT 7" AND PULLED 4700' SPOT 25 SX IN & OUT OF 7" STUB  SPOT 40 SX 9785-9550' PF 9675-9692'		SPOT 10 SX @	) SURFACE			
CUT 9 5/8* AND PULLED 700' SPOT 25 SX IN & OUT OF 9 5/8* @ 4529'  9 5/8* CSG AT 4515 WITH 690 SX  CUT 7* AND PULLED 4700' SPOT 25 SX IN & OUT OF 7* STUB  SPOT 40 SX 9785-9550' PF 9675-9692'		SPOT 25 SX IN	& OUT OF	13 3/8″		
SPOT 25 SX IN & OUT OF 9 5/8" STUB  SPOT 20 SX IN & OUT OF 9 5/8" @ 4529'  9 5/8" CSG AT 4515 WITH 690 SX  CUT 7" AND PULLED 4700' SPOT 25 SX IN & OUT OF 7" STUB  SPOT 40 SX 9785-9550' PF 9575-9692'	4. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	13 3/8"	CSG AT	326 WITH	325 SX	
9 5/8" CSG AT 4515 WITH 690 SX  CUT 7" AND PULLED 4700' SPOT 25 SX IN & OUT OF 7" STUB  SPOT 40 SX 9785-9550' PF 9575-9692'	The transfer of the			" STUB		
PF 9575-9692'		9 5/8" CUT 7" AND PUL	CSG AT	4515_WITH	690_SX	
		PF 9575-9692'		9812_WITH	300_SX	

OPERATOR					DATE P&A	]
FINA OIL & CHEMICAL CO.		MATCH NO	LOCATION		5/4/93	
LEASE		WELL NO.	LOCATION	400 00==		
WINGERD		12	UNIT O SEC 24 T	12S R37E		
	SPOT 10 SX @	SURFACE				
	13 3/8"	CSG AT	300	WITH	325	_sx
(1) (1) (1) (1) (1) (1)	SPOT 90 SX IN &	OUT OF 40 OF	യ കാലെ ലെ ചി	, era en		
	3FO1 90 3X IN &	OUT OF 13 SA	5 @ 360-30 7AF	i isg uit		
	8 5/8"  CUT 5 1/2" AND F SPOT 220 SX @ 4		4500 5 1/2" AND INTO 8	•	690	_sx
\$0.500 KN	SPOT 25 SX @ 69	909'				
	CIBP @ 9440' W/	40' CMT				
	PF 9517-9830'					,•
7 utdera	CMT RET @ 10	)630' W/441'	2 7/8" TBG CM	ITD IN, TOF	10189'	
	PF 10662-1070	)2'				
	CIBP @ 10710'					
	PF 11865-11900'					
	5 1/2"	CSG AT	11986	WITH .	600	sx
	TOT DEPTH	11987				

OPERATOR					DATE P&A	
AMOCO PRODUCTION CORI	<b>.</b>	Lucii No	Licontion	T	6/14/71	
LEASE		WELL NO.	LOCATION	] :400 D0 <del>7</del> 5		
WINGERD		8	UNIT P SEC 24 T	12S R37E	<del> </del>	<del></del>
e de la companya de l	SPOT 10 SX @	SURFACE				
	SPOT 50 SX IN	& OUT OF	13 3/8″ @ 323'			
13 6 11 11 11 11 11 11 11	13 3/8"	CSG AT	323	_WITH	225	sx
	CUT 9 5/8" AND SPOT 25 SX IN &		" STUB			
	SPOT 25 SX IN	& OUT OF		_wітн	590	sx
region of the second	CUT 7" AND PUL SPOT 25 SX IN &		гив			
	SPOT 75 SX @ PF 9610-9636' PBTD 9770' 7"	9770–9400 CSG AT		_wітн	300	_sx
<b>AN</b>						
	TOT DEPTH	9818	-			

OPERATOR	· · · · · · · · · · · · · · · · · · ·			DATE P&A	<del></del>
ATLANTIC RICHFIELD CO.				5/2/69	_
LEASE		WELL NO.	LOCATION		
ROSA SHULTS		1	UNIT M SEC 18 T12S	R38E	
75. · · · · · · · · · · · · · · · · · · ·		SURFACE	315_WITI	н	<u>o_</u> sx
	CUT 5 1/2" AN SPOT 85 SX 46 9 5/8"	600-4393' CSG AT	4443 WITI 4443 WITI THRU PFS 9402-9403	H150	<u>o_</u> sx
	CIBP @ 11900' W SIDETRACK COM CUT & PULLED 8 SET 5 1/2" 12006 PF 11994-11998	MPLETION: 1825' 5 1/2" CS 1' W/ 250 SX	SG SET WHIPSTOCK @	9 8647'	
	ORIGINAL COI PF 9480-9530 CMT RET @ 10 PF 11970-11988, TD 12217 5 1/2" (	' SQZD 0280 . SQZD W/ 90 \$	3X		••
	5 1/2"	CSG AT	12006 WIT	H <u>25</u>	so_sx
	TOT DEPTH	12006	_		

OPERATOR				DATE P&A	
GULF OIL CO.				6/30/61	
LEASE		WELL NO.	LOCATION		
LEA "AV" STATE		3	UNIT D SEC 19 T12S R	138E	
	SPOT CMT PL	UG @ 50'-S	URFACE		
	13 3/8"	CSG AT	353_WITH	450 SX	1,
The state of the s	SPOT CMT PL	UG 4550–44 CSG AT	50' 4503_WITH	<u>*3280</u> SX	• •
	SPOT CMT PLUG	4550-4450'			
A TO TO SHOW STORY	SPOT CMT PLUG	5950-5850'			
	SPOT CMT PLUG	6220-6120'			
E THE COLOR	CUT 7" AND PUL	LED 6179'			
	CSG LK 6771-	6802' SQZD			
7.5779	SPOT CMT 9350-	9250'			
	PF 9385-9590'	000 47	000		
	7"	CSG AT	9597_WITH	275_SX	.5_
	TOT DEPTH	9597	-		

COSPICTOR					I 2425 244	1
OPERATOR AMOCO PRODUCTION CO.					9/13/71	]
LEASE		WELL NO.	LOCATION	Ī	9/13//1	
STATE "B-19"		1	UNIT K SEC 19 T	12S R38E		
	SPOT 10 SX @	SURFACE				
	SPOT 50 SX 3	44–295'				
STOTATE STREETS	13 3/8"	CSG AT	342	_WITH	350	sx
To the of the second of the	CUT 8 5/8" AND SPOT 50 SX 1010					
Entertail States	8 5/8*	CSG AT	4633	_wiтн	<u> </u>	sx
	CUT 5 1/2" AND SPOT 50 SX 4530					
इस्सी, के छ	SPOT 30 SX 8	050-8300'				
	SPOT 50 SX 1159					
SEP SEE	PF 11958-11968'					
	5 1/2"	CSG AT	9597	_WITH	1200	.sx
	TOT DEPTH	11982	_			

					T DATE DAA	T
OPERATOR FETRUS OIL COMPANY, L.P.					9/6/87	
LEASE	•	WELL NO.	LOCATION		3/0/0/	-
HOUSTON "A"		1	UNIT L SEC 19	 T12S R38E		
S. W. Y. C. C.	SPOT 10 SX (	D SURFACE				
	CIRC 100 SX PF 7" @ 324'		IOLES @ 324',	TOC 272'		
	13 3/8"	_CSG AT	324	_wітн	255	<u>5_</u> sx
	SPOT 25 SX @ 2	2225'				
	SPOT 50 SX 4	533-4240' _CSG AT	4514	_with	44(	)_sx
	SPOT 100 SX 59 SPOT 25 SX 700 CIBP @ 9270'					
	PF 11875-118					
	CIPB @ 11905'					
1	OPEN HOLE 119	921-11960'				
٥						

					T-:
OPERATOR					DATE P&A
PAN AMERICAN PETROLEUN	M CORP.				12/1/67
LEASE		WELL NO.	LOCATION	]	
HOUSTON "A"		2	UNIT L SEC 19 T	12S R38E	
Till the bot 18 . A A 11/12	SPOT 10 SX @	SURFACE			
	SPOT 25 SX IN	I & OUT OF	13 3/8" CSG		
The state of the state of	13 3/8"	CSG AT	303	WITH	325 SX
		•		•	<del>*************************************</del>
	CUT 9 5/8" AND I SPOT 25 SX IN &		' STUB		
	SPOT 20 SX IN	I & OUT OF S	_	_WITH	590_SX
my 9 44-69 172-54	CUT 5 1/2" AND I SPOT 25 SX IN &		' STUB		
	SPOT 15 SX 9550 PF 9470-9536'	)-9460'			
	5 1/2"	CSG AT	9806	WITH	SX
		-		-	
	TOT DEPTH	9816			

				<del></del>	DATE DO A	
OPERATOR					DATE P&A	
PAN AMERICAN PETROLE	EUM CORP.	LWELL NO	LOCATION		8/15/69	
HOUSTON "B"		WELL NO.	<del> </del>			
HOOSTON "B"		1	UNIT M SEC 19	1125 H36E		
	SPOT 10 SX @	SURFACE				
	SPOT 50 SX 2	90–250' _CSG AT	301	_with	325_SX	
	CUT 9 5/8" AND SPOT 25 SX 710	•				
	9 5/8" CUT 7" AND PUI SPOT 75 SX 4450		4461	_with	690_SX	
	ORIGINAL COMF TD 9820' PBTD 9 PF 9498-9556'					
	OLD WELL DR DRILLED NEW SET 5" LINER PF 10004-10176'	NLLED DEEF HOLE 9820 9140–11971	-11971'			
733	CIBP @ 11700' PF 11908-11953'					
	7" 5" TOP LINER TOT DEPTH	CSG AT LINER @ 9140 11971	9808	_WITH WITH	300 SX 200 SX	

#### UNICHEM INTERNATIONAL

#### 601 NORTH LEECH

P.O.BOX1499

#### HOBBS, NEW MEXICO 88240

COMPANY: AMOCO
DATE: 5-22-84
FIELD, LEASE&WELL: WINGERD #13 GLADIOLA-MISSISSIPPAN
SAMPLING POINT: WELLHEAD
DATE SAMPLED: 5-14-84

SPECIFIC GRAVITY = 1.063 TOTAL DISSOLVED SOLIDS = 93316 RESISTIVITY AT 76F IS .082 ( PH = 5.94 .082 OHMS

		ME/L	MG/L
CATIONS			
CALCIUM MAGNESIUM SODIUM	(CA)+2 (MG)+2 (NA),CALC.	220 90 1305.	4408. 1094. 30018.
ANIONS			
BICARBONATE CARBONATE HYDROXIDE SULFATE CHLORIDES	(HCO3)-1 (CO3)-2 (OH)-1 (SO4)-2 (CL)-1	2 . 2 0 0 1 3 . 5 1 6 0 0	134. 0 0 650 57000
DISSOLVED CASE	S		•
CARPON DIOXIDE HYDROGEN SULFIDE OXYGEN	(CO2) (H2S) (O2)	NOT RUN NOT RUN NOT RUN	
IRON(TOTAL) BARIUM MANGANESE	(FE) (BA)+2 (MN)	.16 NOT RUN	60.2

#### IONIC STRENGTH (MOLAL) =1.839

	SCALING INDEX	TEMP
		3 0 C
		86F
CARBONATE INDE	X	93
CALCIUM CARBON		UNLIKELY
CALCIUM SULFAT	E INDEX	<b>-28</b> .
CALCIUM SULFAT		UNLIKELY

P. O. BOX 1468 MONAHANS, TEXAS 79766 PH. 943-3294 OR 663-1040

709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 883-4521

#### RESULT OF WATER ANALYSES

o. Mr Carl Rrown	£/	ABORATORY NO. 🔔			
0: Mr. Carl Brown 303 West Wall Street, Suite 1901		AMPLE RECEIVED			
		ESULTS REPORTED.	8-24-	-93	
Midland, TX 79701					
OMPANY Barbara Faske	En LE/	48E	···		
ECTION 24 BLOCK SURVEY T-12	Gladiola				
	S&R-37E COUNTY	Lea STATE	NM NM		
OURCE OF SAMPLE AND DATE TAKEN:					
NO. 1 Raw water - taken from k	<u> (insoning fresh wa</u>	ter well (wind	mill). 8-21	L-93	
NO. 2					
NO. 3					
NO. 4					
EMARKS:					
	CHEMICAL AND PHYSICAL	ORAGERTIES			
The state of the s	NO. 1	NO. 2	NO. 3	NO. 4	
Specific Gravity at 50° F.	1.0015			7,4,4	
pH When Sampled					
pH When Received	7,32				
Bicarbonate as HCO,	307				
Supercaturation às CaCO <sub>3</sub>					
Undersaturation as CaCO,					
Total Hardness as CaCO,	100				
Galdium as Ca	27				
Magnesium as Mg	8				
Sodium and/or Potassium	162			· ··	
Bullate as 50,	103				
Chloride as Ci	67				
Serium as Ba	0.54			<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	
Turbidity. Electric					
Color as P1				· · · · · · · · · · · · · · · · · · ·	
"otat Bolids, Calculated	674				
"emperature "F.					
Carbon Dioxide, Calquiated					
Diesolved Oxygen.					
Hydrogen Sulfide	0.0			<del></del>	
Resistivity, ohms/m at 77° F.	12.42			· · · · · · · · · · · · · · · · · · ·	
Suspended Oil					
Filtrable Solids as mg/l					
Volume Fillered, mi					
Nitrate, as N	0.0				
	Results Reported As Milligrar	ne Per Liter			
Additional Determinations And Remarks The unde			ne true and	correct to	
the best of his knowledge and	belief.				
				·	
		· · · · · · · · · · · · · · · · · · ·			
			<del>/-/</del>		
			7,		
orm Ng. 3		- <del>G</del> m > 29 ×			

#### 709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 583-4521

#### RESULT OF WATER ANALYSES

o: Mr. Carl Brown	\$	AMPLE RECEIVED _	8-23-	.02	
				7)	
303 West Wall Street, Suite 1901		RESULTS REPORTED 8-24-93			
Midland, TX 79701					
COMPANY Barbara Fasken	LE.	ASE			
FIELD OR POOLSURVEY <u>T-12S&amp;R-37E</u>	_ COUNTY	Lea STATE	NM		
SOURCE OF SAMPLE AND DATE TAKEN:					
NO. 1 Raw water - taken from Skelto	n Ranch Hous	e (garden hose	= ). $8-21-93$		
NO.2					
NO. 3	·····				
NO.4			·		
REMARKS:					
CHEMICA	AL AND PHYSICAL		100		
	NO. 1	NO. 2	NO. 3	NO. 4	
Specific Gravity at 60° F.	1.0011				
pH When Sampled	7 / ^				
pH When Received Bloarbonate as HCO;	7.40 244				
Supersaturation as CaCO,					
Undersaturation as CaCO,		<u> </u>			
Total Hardness as CaCO,	244				
Calcium as Ca	85			·	
Magnasium as Mg	8		M.,		
Sodium and/or Potassium	64				
Bullate as 80,	104				
Chloride as Ci	54				
iron as Fe	0.05	•			
Barlum as Ba					
Turbidity, Electric					
Color se Pt	·•				
Total Solids, Calculated	559				
Temperature *F.				1	
Carbon Dloxide, Calculated					
Dissolved Oxygen,					
Hydrogen Suifide	0.0				
Resistivity, ohmaim at 77° F.	15.22				
Suspended Oil		<del> </del>			
Filtrable Solids as mg/l Volume Filtered, ml				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Nitrate, as N	0.0				
MARGORI UD II	<u> </u>				
Ros	ults Reported As Milligra	ems Per Liter			
Additional Determinations And Remarks The undersign	ed certifie	the above to	be true and	correct to	
the best of his knowledge and beli					
			/	<u> </u>	
			<del></del>	,	
		and the same	<del>- ( ** - //</del>		
l				<del></del>	
Porm No. 3		W/1911 Jr B 19	' /_ #	,	

P. Or BOX 1468 MONAMANS, TEXAS 79766 PH. 943-9234 OR 663-1040

## Martin Water Laboratories, Inc.

708 W. INDIANA MIDLAND, TEXAS 70701 PHONE 883-4821

### RESULT OF WATER ANALYSES

		LABORATORY NO	89313	893130	
O: Mr. Carl Brown 303 West Wall Street, Suite 1901		SAMPLE RECEIVED	8-23-	8-23-93	
		RESULTS REPORTED_			
Midland, TX 79701				- · · · · · · · · · · · · · · · · · · ·	
COMPANY Barbara Fa					
FIELD OR POOL	Gladiol	8			
FIELD OR POOLSURVEYT	-125&R-38E COUNTY	Lea STATE	NM		
Source of sample and date taken	:				
NO.1 Raw water - taken @ H	ouston Ranch House	(kitchen faucet	). 8-21-93		
NO. 2					
NO. 3					
NO. 4					
REMARKS:					
	CHEMICAL AND PHYSI				
Detaile Capille - + 50 t B	1,0020	NO. 2	NO. 3	NO. 4	
Specific Gravity at 60° F.	1,0020				
pH When Received	7.32				
Bicarbonale as HCO <sub>2</sub>	220				
Superasturation as CaCO,					
Undersaturation as CaCO,			<del></del>		
Total Hardness as CaCO:	512				
Calcium as Ca	170				
Magnesium as Mg	21			·	
Socium and/or Potassium	91				
Suitale as 50,	132				
Ghioride es Ci	278				
Irôn as Fe	0.03	'			
Barium as Ba					
Turbidity, Biactric					
Cotor as Pt					
Tota: Solids, Calculated	912			<del></del>	
Temperature *F.				·	
Carbon Dioxide, Calculated					
Dissolved Oxygen.  Hydrogen Builde	0.0		·	*	
Resistivity, ohms/m at 77* F.	7.20		·		
Suspended Oil	7.20			· · · · · · · · · · · · · · · · · · ·	
Filtrapie Solids as mg/l					
Volume Filtered, mi					
Nitrate, as N	1.0				
	Results Reported As Mil				
Additional Determinations And Remarks The U	<u>ndersigned certifi</u>	es the above to	be true and	correct to	
the best of his knowledge	and belief.		,		
			<del></del>		
		······································			
······································			<del></del>		
				/	
Form No. 3		1/10		7	

# 37

#### STATE OF NEW MEXICO

## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENTS OF DIVISION

### OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

'93 SEº 3 AM 8 41

BRUCE KING GOVERNOR

-/ed

OIL CONSERVATION DIVISION

8-31-93

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 8B241-1980 (505) 393-6161

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501
RE: Proposed: MC DHC NSL NSP SWD WFX PMX
Gentlemen:
I have examined the application for the:  Borbara tasken wingerd #2-H-24-12-37  Operator Lease & Well No. Unit S-T-R  and my recommendations are as follows:
OK_
Yours very truly,  erre Sexton Supervisor, District 1