

Consolidated Oil & Gas, Inc.

P. O. BOX 2038
FARMINGTON, NEW MEXICO 87499
(505) 632-8056

February 25, 1985

Mr. Frank Chavez
New Mexico Oil Conservation Division
1000 Rio Brazos Rd.
Aztec, New Mexico 87410

Re: Langendorf 3
1097' FSL & 1439' FEL
Sec 34, T31N, R13W
San Juan Co., New Mexico

Dear Mr. Chavez,

Consolidated Oil & Gas, Inc. hereby requests authorization to dispose produced salt water in the Point Lookout zone of the Mesaverde formation within the above referenced well.

The proposed well is to be drilled with 8 5/8" surface casing set at 250' and 5 1/2" casing set at 4700' to protect all fresh water zones. Cement design is to be run to surface and a cement bond log will be run upon completion.

There are no fresh water wells within one mile of the proposed salt water disposal well. The nearest fresh water well is over 1.5 miles to the north by north west across the La Plata River.

Consolidated intends to run a plastic coated packer and 2 7/8" tubing string above the injection interval. A maximum disposal rate of 250 BWPD is requested.

Enclosed please find requested information.

Yours very truly,


Dale Richardson

Production & Drilling Superintendent

DER:WLD:wc
Enclosures
cc: N. M. Oil Conservation Division, Santa Fe

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Consolidated Oil & Gas, Inc.
Address: P.O. Box 2038, Farmington, New Mexico 87499
Contact party: W. L. Converse Phone: (505)632-8056
- 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. Attachment #1
- IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. Attachment #2
- * 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. Attachment #3
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). Attachment #4
- *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. Attachment #5 & #6
- IX. Describe the proposed stimulation program, if any. Attachment #7
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.) Attachment #8
- * 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. Attachment #9
- 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. Attachment #10
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. Attachment #11
- 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: W. L. Converse Title District Engineer

Signature: Wayne L. Converse Date: February 25, 1985

- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance 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 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.

ATTACHMENT 1

Consolidated Oil & Gas, Inc.
Completion Schematic for Salt
Water Disposal ApplicationElevation: 5873'KB
5860'BL

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LANGENDORF 2
1097'FSL & 1439'FEL
Sec 34, T31N, R13W
San Juan Co., NM
Lease # SF-C784633-5/8", 24#, casing @ 250'
Cmt w/ 200 sx Class "B" w/
2% CaCl₂. Cmt top to be
at surface.12-1/4" hole to 250'
Drl w/ spud mudFORMATION TOPS (est.)

Ojo Alamo	- 200'
Fruitland	- 1320'
PC	- 1950'
Cliff House	- 3550'
Menefee	- 3710'
Point Lookout	- 4340'

There are no commercially
productive Mesaverde wells
within two miles of this
proposed injection well.
The Langendorf 1E (339'
from this location) was
originally completed in
the Point Lookout and was
found to be unproductive.
The Mesaverde zone is
temporarily abandoned.Electric/Radioactive
Logs are to be run
prior to running csg.Cmt stage collar @ 2100'
Cmt 2nd stage w/ 65/35
pozmix w/ 6% gel, 1/4#
flocle/sx. Tail-in w/
100 sx 50/50 pozmix w/ 2%
gel, 1/4# flocle/sx. Cmt
will be calculated to go to
surface plus 20% overage
after caliper log is run.[D]
[V]Cement bond log will
be run from PBTD to
surface to insure
the Ojo Alamo zone
is covered with cmt.Breakdown Pt. Lookout w/
1000 gal 15% HCL and ball
sealers to open perms.
Step rate tests will be
conducted to determine
formation parting pressures.XX
XX

XXXXXXXXXX

2-7/8" tbg @ 4300'
(Plastic coated)Baker Loc Set Pkr
@ 4300'
(Plastic coated)3-1/2", 15.5# K-55 casing
@ 4700'. Cmt 1st stage
w/ 50/50 pozmix w/ 2% gel,
1/4# flocle/sx. Tail-in
w/ 100 sx CI "H" neat. Cmt
will be calculated to go to
the DV tool plus 20% overage
after caliper log is run.-
[a]
[a]
[a]Point Lookout perf
interval: 4340-4550'
(Selectively perf w/
1 JSPP)7-7/8" hole to 4700'
Drl w/ LSND. Vis 32-
38, WL 8.5-9.0 PPG
or more if required.

*NOTE - Exact setting depths will be determined

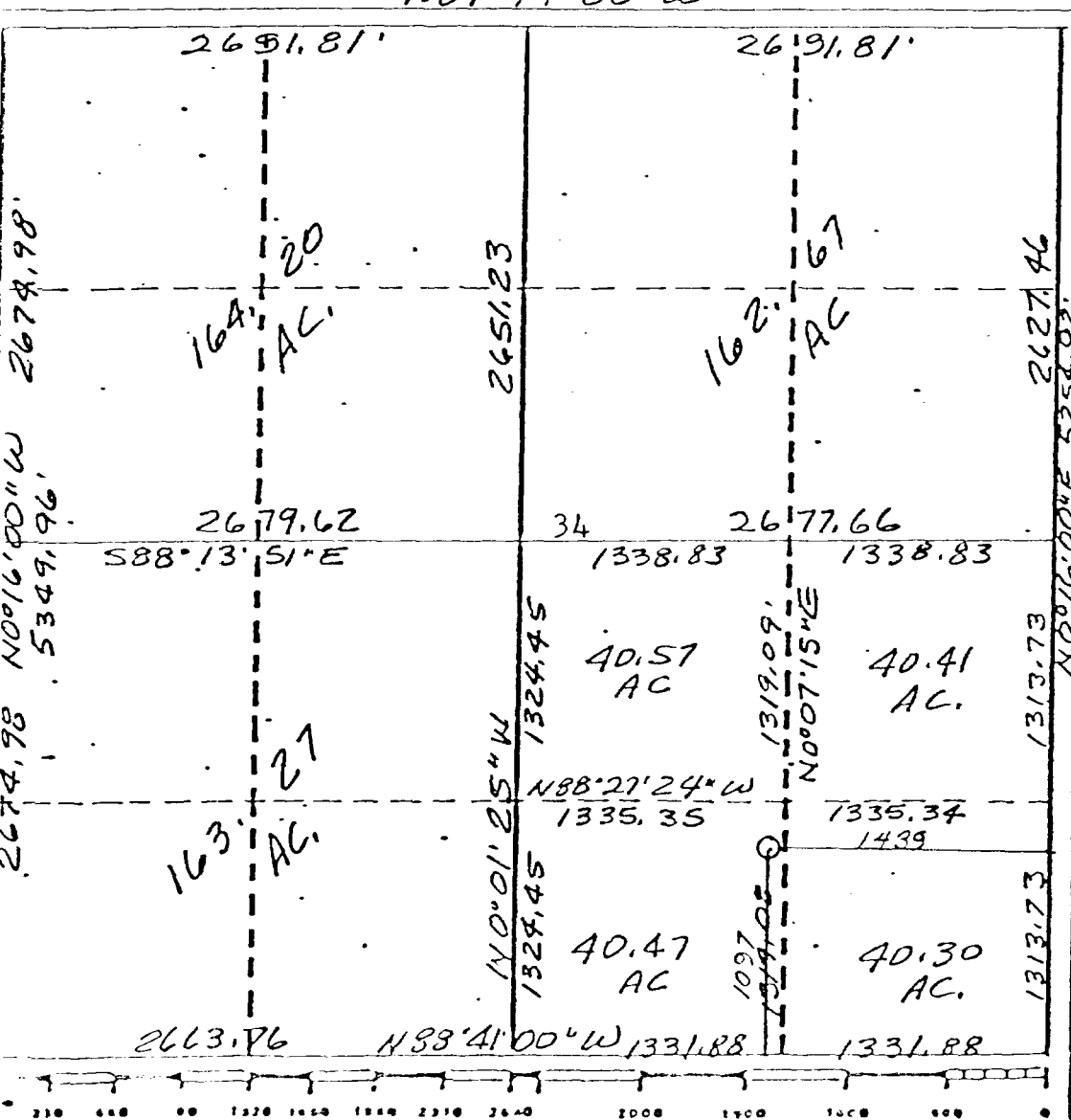
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ENCLOSURE 14-63

CONSOLIDATED OIL & GAS, INC.		LANGENDORF		Well No.	3
Well Letter	Section	Township	Range	County	
0	34	31 NORTH	13 WEST	SAN JUAN	
Actual Footage Location of Wells					
1097	feet from the	SOUTH	line and	1439	feet from the
					EAST
Ground Level Elev.	Producing Formation	Pool	Dedicated Acres		
5860.			Acres		

- ☐ Yes ☐ No If answer is "yes," type of consolidation

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Wayne K. Rivers

Name _____

Wayne Converse

Position

District Engineer

Company

Consolidated Oil & Gas, Inc.

Date _____

2-25-85

I hereby certify that the well location shown on this plat was plotted from field notes of Rechar surveys made by me or under my supervision, and that the same to my knowledge and belief is the best of my

Date 5-2-72

February 22, 1985

Regulated Professional Engineer
and/or Land Surveyor

George R. Tompkins

Certificate No.
7259

ATTACHMENT 3

LANGENDORF 3
Sec 34, T31N, R13W

WELL HISTORIES - AREA OF REVIEW

Wells within the prescribed one-half mile radius of the
Langendorf 3 are as follows:

Operator	Amoco	COG	COG	COG	UTP	INOC
Wellname	J.F.Bell12	Langendorf1	Langendorf1E	Langendorf2	LeaFed1	McCord1
Location	1050'FNL& 1620'FEL	1750'FNL &990'FEL	1100'FSL& 1100'FEL	1110'FSL &875'FEL	790'FSL& 1140'FWL	1190'FNL &985'FEL
S-T-R	3-30-13	34-31-13	34-31-13	34-31-13	34-31-13	3-30-13
Elevation	5800'RDB	5730'KB	5866'KB	5879'KB	5824'RKB	5856'KB
Well Status	PGW	PGW	PGW	PGW	PGW	P&A
Spud Date	9-7-66	10-18-60	6-1-80	3-22-84	9-16-63	8-28-56
Total Depth	6681'	6557'	6835'	2155'	6680'	4570'
Zone	DK	DK	DK & MV	FR	DK	MV
Perfs	6510- 6612'	6369- 6467'	6521- 6776' 4376-(T&A) 4654'	1756- 1767'	6422- 6532'	4302- 4492' (P&A)
Surface Csg	8-5/8" @ 354'	9-5/8" @ 195'	8-5/8" @ 267'	8-5/8" @ 166'	8-5/8" @ 272'	10-3/4" @ 177'
Surf. Csg Cmt	225 sx none	130 sx circ	200 sx none	190 ft3 circ	150 sx circ	175 sx none
Inter. Csgl	N/A	N/A	N/A	N/A	N/A	7" @ 4274'
Inter. Csg Cmt	DV Tools 4664' & 2055'	N/A	DV Tools 4773' & 2268'	N/A	DV Tool 4665'	150 sx none
Prod. Csg	4-1/2" @ 6681'	5-1/2" @ 6554'	5-1/2" @ 6835'	4-1/2" @ 2155'	4-1/2" @ 6680'	5-1/2" @ 4570'
Prod. Csg Cmt	1st-525 sx-circ 2nd-525 sx-circ 3rd-475 sx-circ	1st-275 sx-none *MV zone will be sqz from min. of 4585' to 3100' or higher.	1st-475 sx-circ 2nd-430 sx-circ 3rd-700 sx-none *MV perfs will be sqz w/ 100 sx cmt.	1st-375 ft3-circ	1st-410 ft3-none 2nd-1000 ft3-none	1st-30 sx-none (Csg cut & well P&A) Wellbore diagram is en- closed.

Check

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1400' to surface      1
<1          71\      1>

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      |   200 sx cmt
|400' to surface
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150sx cmt

6-1/4" hole to 4623'

*NOTE - All values were estimated from incomplete or

ATTACHMENT 4

LANGENDORF 3
Sec 34, T31N, R13W

PROPOSED DISPOSAL OPERATION

1. The proposed injection well will be used to dispose of produced water from the following wells (leases). Water will be trucked from these wells to the injection well holding pit at the Langendorf 1E. Average BWP/D is based on low market demand.

WELL NAME	ZONE	4/4	LOCATION	LEASE NO.	BWP/D (MAX)	BWP/D (AVE)
ARNSTEIN 1E	DK	NE/NW	18-31N-12W	82-078243	4.5	2.5
CAIN 1E	GP	NE/SE	25-31N-13W	82-078464	0.4	<0.1
CAIN 2	FR	SE/NE	25-31N-13W	82-078464	3.7	3.4
CHAVEZ 1A	MV	SE/SE	02-31N-13W	State	<0.1	<0.1
CLAYTON 1E	DK	SE/SE	02-30N-12W	Fee	21.2	2.6
CLAYTON 1E	GP	SE/SE	02-30N-12W	Fee	1.3	<0.1
CLAYTON 2	MV	NE/SW	02-30N-12W	Fee	1.0	<0.1
CLAYTON 2A	MV	SE/SE	02-30N-12W	Fee	1.0	<0.1
COMPASS 1	DK	NW/SE	22-31N-13W	Fee	<0.1	<0.1
DLKE 1M	DK	NE/SE	13-31N-13W	82-078707	2.3	1.0
GROSS 1E	DK	NE/SE	07-31N-12W	29-021123	1.9	<0.1
GROSS 1E	MV	NE/SE	07-31N-12W	29-021123	2.1	2.1
HALE ADOBE 1	DK	SW/NE	28-31N-13W	82-078463A	<0.1	<0.1
HANCOCK 1A	MV	SW/NW	01-31N-13W	Fee	<0.1	<0.1
JACKSON 2E	DK	SW/SE	18-31N-12W	29-021125	0.9	0.9
JACQUEZ 1A	MV	SE/NW	02-31N-13W	Fee	0.1	<0.1
KAUFMAN 1	DK	SE/NE	33-31N-13W	82-078463A	0.5	<0.1
KLINE 1M	DK	NE/SE	10-31N-13W	Fee	4.5	<0.1
KLINE 1M	MV	NE/SE	10-31N-13W	Fee	3.5	<0.1
LANDAUER 1E	DK	NE/SE	03-31N-13W	Fee	<0.1	<0.1
LANGENDORF 1	DK	SE/NE	34-31N-13W	82-078463	0.2	<0.1
LANGENDORF 1E	DK	SE/SE	34-31N-13W	82-078463	29.0	18.5
LEA 1	DK	NE/SW	30-31N-12W	82-078244	0.4	<0.1
NANCE 1	DK	NW/SE	27-31N-13W	82-078463A	<0.1	<0.1
NEUMAN 1	DK	NW/NE	20-31N-12W	29-021126	1.3	0.4
O'SHEA 1M	MV	SE/NW	03-31N-13W	Fee	<0.1	<0.1
PAYNE 1	DK	NE/SW	35-31N-13W	82-078464	<0.1	<0.1
PAYNE 2	DK	SE/NE	35-31N-13W	82-078464	0.3	<0.1
PAYNE 4	FR	SE/SE	35-31N-13W	82-078464	4.6	0.2
PHILLIPS 1	DK	NE/SE	23-31N-13W	82-078464	<0.1	<0.1
PHILLIPS 1E	DK	NE/SW	23-31N-13W	Fee	4.5	4.0
RIPLEY 2A	DK	SE/SE	26-32N-13W	Fee	<0.1	<0.1
RIPLEY 2A	MV	SE/SE	26-32N-13W	Fee	0.1	<0.1
ROBINSON BRO. 1M	MV	SE/SW	34-32N-13W	Fee	0.7	<0.1
TAFOYA 1	MV	SE/SW	35-32N-13W	82-079007A	<0.1	<0.1
TAFOYA 1A	MV	SE/NW	35-32N-13W	82-079007A	0.1	<0.1
TEMPLETON 1	DK	NE/NW	27-31N-13W	Fee	<0.1	<0.1
TEMPLETON 1E	DK	NW/NE	27-31N-13W	Fee	4.5	4.3
TEMPLETON 1E	GP	NW/NE	27-31N-13W	Fee	<0.1	<0.1
WILLIAMS 1M	DK	NE/NW	24-31N-13W	29-048376	0.5	0.5
WILMERDING 1M	DK	NE/NW	10-31N-13W	Fee	1.5	<0.1
Count: 41					* Total: 97.9	43.3

* New wells drilled in the La Plata area will add an estimated 150 BWP/D.

2. The produced water will be stored in a lined pit on the Langendorf 1E location. The pump suction will be piped to the lined pit and the pump will be operated by a head switch located in the pit. Pump discharge will be manifolded into the wellhead. The water will be chemically treated before pumping the water to the wellhead.
3. Formation fracture gradient for the Point Lookout in the area is estimated to be .59 psi/ft based on a review of completion attempts in the township. A review of bottom hole pressure data from 7 day SI tests run in the township indicated an average formation pressure gradient of .41 psi/ft. These tests were on Point Lookout intervals on wells located near the Langendorf 3. This indicates that we should be able to pump into this formation with very little pressure since the head of water will overcome formation pressure and friction will be negligible due to the low daily rates of disposal. Maximum surface pressure will be held to 800 psig unless the step rate tests determine a different injection surface pressure.

4. Water Analysis: mg/l

Well Name	Zone	Na	Ca	Mg	Fe	Cl	Bicarb	SO4	CO3	OH	TDS	Rw
Cain 2	(FR)	7310	95	51	7	10900	1147	37	0	0	19552	.345
Clayton 1E	(GP)	323	0	5	44	500	25	4	0	0	856	NR
Clayton 2A	(MV)	1600	32	5	47	2400	219	0	0	0	4261	1.33
Jackson 2E	(DK)	904	40	6	84	1300	146	77	0	0	2476	1.94
Kline 1M	(MV)	8137	133	89	6	12000	305	1200	0	0	21866	.272
Langendorf 1E	(DK)	3002	347	117	4	1100	942	5416	0	0	10825	.278
OShea 1M	(MV)	5330	84	46	12	8300	353	4	0	0	14129	.402
Phillips 1E	(DK)	9713	400	206	43	12000	744	5250	0	0	28315	.252
Tafoya 1A	(MV)	1123	56	14	25	1300	122	666	0	0	3283	1.90
Templeton 1E	(DK)	9832	427	57	12	12200	817	4625	0	0	27959	.262
Wilmerding 1E	(DK)	12294	2004	607	61	23000	183	1575	0	0	39664	.160

NR = Not recorded. These samples did not have sufficient dissolved solids present to record a value.

5. The Point Lookout sandstone is not capable of commercial production of oil or gas within the prescribed one mile radius. Water analysis are not available in the immediate vicinity. Water sample analysis of a Point Lookout test in NE/SE 10-31N-13W came from the Kline 1M as recorded above. Water samples mixed from wells in the La Plata area show a tendency to form CaCO3 scale. This scaling tendency can be chemically treated prior to injection. The wells listed above are located in the following areas:

Well Name	Zone	Location (4/4, SEC, TWP, RGE)
Cain 2	(FR)	SE/NE 25-31N-13W
Clayton 1E	(GP)	SE/SE 2-30N-12W
Clayton 2A	(MV)	SE/SE 2-30N-12W
Jackson 2E	(DK)	SW/SE 18-31N-13W
Kline 1M	(MV)	NE/SE 10-31N-13W
Langendorf 1E	(DK)	SE/SE 34-31N-13W
OShea 1M	(MV)	SE/NW 3-31N-13W
Phillips 1E	(DK)	NE/SW 23-31N-13W
Tafoya 1A	(MV)	SE/NW 35-32N-13W
Templeton 1E	(DK)	NW/NE 27-31N-13W
Wilmerding 1E	(DK)	NE/NW 10-31N-13W

ATTACHMENT 5

LANGENDORF 3 Sec 34, T31N, R13W

A sample log run on the Payne 2E, NW 35-31N-12W, indicates the Point Lookout in the La Plata area consists of sandstone-shale sequences typical of the Point Lookout. The shales are described as dark gray, silty, soft to medium soft. The sandstones are predominately green to gray green colored, coarse large grained to conglomeratic quartz. The lowermost sandstones change to white to amber coarse grained, quartz. Some traces of coal were mentioned, but are probably remnants from the Menefee section.

There is a structural rise across section 34 from the NE to the SW of 68' which is typical of the slope leading into the central basin. There is no surface or subsurface evidence of faulting in the vicinity of this well.


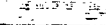
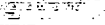
Recent logs on Dakota infill wells in the area indicate porosity value ranges of 6 to 16% in the Mesaverde. The average for this site will be in the 8 to 10% range for the Mesaverde.

Average thickness of the proposed multiple injection intervals within the Point Lookout are estimated at 56'. These intervals are found in the depth range of 4350-4770' in offset wells. A correlation cross-section for the proposed site is attached.

The only overlying sources of drinking water are the Nacimiento strata exposed at the surface. The Ojo Alamo is present at 200' to 350'. It is proposed to run cement behind the production casing through this interval for positive protection even though it contains non-potable water.

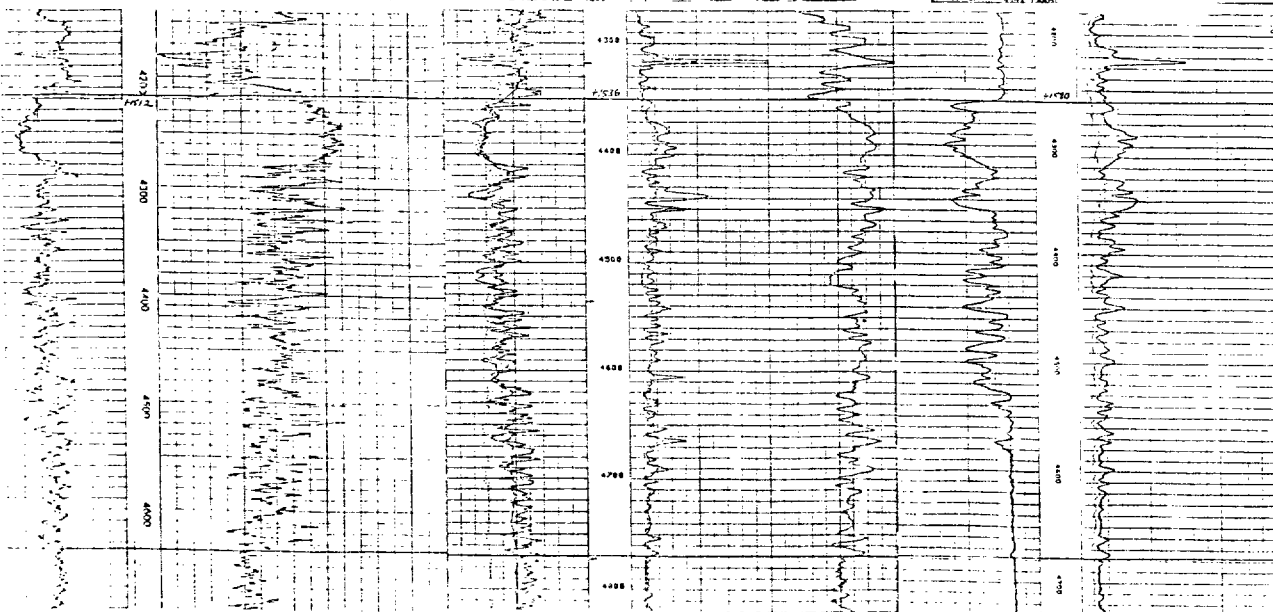
LANGENDORF 3
Sec 34, T31N, R13W

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COMPANY <u>GEOSLUT, NIGERIA</u> PRODUCTION COMP. <u> </u>		COUNTRY <u>GEOSLUT, NIGERIA</u> REGION <u> </u> DISTRICT <u> </u>		COUNTRY <u>GEOSLUT, NIGERIA</u> REGION <u> </u> DISTRICT <u> </u>	
WELL <u>CENTRAL LIA 41</u>		LOCATION <u> </u> <u> </u>		DATE <u>1971 FEB</u> TIME <u>12:47 PM</u>	
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LOCATION <u> </u>		LOCATION <u> </u>		LOCATION <u> </u>	
COUNTY <u> </u>		COUNTY <u> </u>		COUNTY <u> </u>	
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RECEIVED
 JUL 1 1989
 OIL COMPANY
 DIST. 3



ATTACHMENT 7

LANGENDORF 3
Sec 34, T31N, R13W

PROPOSED STIMULATION PROGRAM

An acid breakdown will be the only stimulation done on this well initially. This will be done to insure adequate communication between the wellbore and injection zone. Rate and pressure will be maintained so that the frac gradient (.59 psi/ft est.) is not exceeded. Additional matrix acidizing may be required in the future but will not be considered until the injectivity tests are analyzed.

ATTACHMENT 8

LANGENDORF 3
Sec 34, T31N, R13W

LOGGING AND TEST DATA

The proposed logging program is:

- 1) Induction Electric Log from TD to surface casing shoe.
- 2) Formation Density/Compensated Neutron Log from TD to surface casing shoe.
- 3) Cement Bond/GR/CCL Log from PBTD to surface casing shoe.

ATTACHMENT 2

LANGENDORF 3
Sec 34, T31N, R13W

DOMESTIC WATER WELLS WITHIN A ONE MILE RADIUS

There are no domestic water wells within a one mile radius of the proposed injection well location. The nearest water well is over 1.5 miles to the north by north west across the La Plata River.

ATTACHMENT 10

LANGENDORF 3
Sec 34, T31N, R13W

STATEMENT

I hereby certify that I have examined available geologic and engineering data and can find no evidence of connection between the disposal zone and underground drinking water sources.

February 25, 1985

Wayne L. Converse

Wayne L. Converse
District Engineer

P 597 654 935

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, Feb. 1982

★ U.S.G.P.O. 1983-403-517

Sent to	Union Texas Pet. Corp.	
Street and No.	P.O. Box 1290	
P.O. State and ZIP Code	Farmington N.M. 87495	
Postage	\$	20
Certified Fee		75
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to whom and Date Delivered		60
Return receipt showing to whom, Date, and Address of Delivery		
TOTAL Postage and Fees	\$	1.55
Postmark or Date	FEB 7 1985 FLORA VISTA NM	

P 597 654 946

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, Feb. 1982

★ U.S.G.P.O. 1983-403-517

Sent to	Duggan Prod. Corp.	
Street and No.	Box 208	
P.O. State and ZIP Code	Farmington N.M. 87499	
Postage	\$	20
Certified Fee		75
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to whom and Date Delivered		60
Return receipt showing to whom, Date, and Address of Delivery		
TOTAL Postage and Fees	\$	1.55
Postmark or Date	FEB 7 1985 FLORA VISTA NM	

P 597 654 947

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, Feb. 1982

★ U.S.G.P.O. 1983-403-517

Sent to	Amco Prod. Co.	
Street and No.	501 Airport Blvd.	
P.O. State and ZIP Code	Farmington N.M.	
Postage	\$	20
Certified Fee		75
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to whom and Date Delivered		60
Return receipt showing to whom, Date, and Address of Delivery		
TOTAL Postage and Fees	\$	1.55
Postmark or Date	FEB 7 1985 FLORA VISTA NM	

P 597 654 936

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, Feb. 1982

★ U.S.G.P.O. 1983-403-517

Sent to	C. M. Paul	
Street and No.	P.O. Box 208	
P.O. State and ZIP Code	Farmington N.M. 87499	
Postage	\$	20
Certified Fee		75
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to whom and Date Delivered		60
Return receipt showing to whom, Date, and Address of Delivery		
TOTAL Postage and Fees	\$	1.55
Postmark or Date	FEB 7 1985 FLORA VISTA NM	

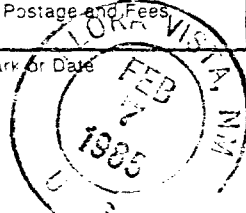
P 597 654 948

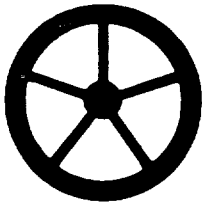
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

★ U.S.G.P.O. 1983-403-517 PS Form 3800, Feb. 1982	Sent to	El Paso Nat Gas Co	
	Street and No.	P.O. Box 990	
	P.O. State and ZIP Code	Farmington NM 87499	
	Postage	\$.20
	Certified Fee		75
	Special Delivery Fee		
	Restricted Delivery Fee		
	Return Receipt Showing to whom and Date Delivered		60
	Return receipt showing to whom, Date, and Address of Delivery		
	TOTAL Postage and Fees	\$	1.55
Postmark or Date			





Consolidated Oil & Gas, Inc.

P O BOX 2038
FARMINGTON, NEW MEXICO 87499
(505) 632-8056

February 6, 1985

El Paso Natural Gas Company
Attn: Mr. Don Walker
P.O. Box 990
Farmington, New Mexico 87499

Re: Waiver for Administrative Approval of Proposed Downhole Water
Injection Well for Consolidated Oil & Gas, Inc. Langendorf 3,
Blanco Mesa Verde, 925' FSL & 1355' FEL, Sec 34, T31N,
R13W, San Juan Co., New Mexico

Dear Mr. Walker,

Consolidated Oil & Gas, Inc. has submitted an application to the New Mexico Oil Conservation Division, as outlined in NMOCD Rule 701-B, to apply for approval to administratively inject produced waters from wells in the La Plata area. We are notifying your office of our intent, and would like you to sign and return each copy of the Waiver of Objection in the self addressed envelopes.

Please mail the waivers to Frank Chavez, New Mexico Oil Conservation Division, 1000 Rio Brazos Rd., Aztec, New Mexico 87410 and Dale Richardson, Consolidated Oil & Gas, Inc., P. O. Box 2038, Farmington, New Mexico 87499.

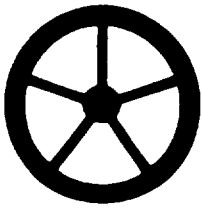
If you have any questions concerning this request please contact Wayne Converse at 632-8056.

Yours very truly,

Dale Richardson
Production & Drilling Superintendent

DER:WLC:wc
Enclosures

cc: N. M. Oil Conservation Division, Santa Fe
N. M. Oil Conservation Division, Aztec



Consolidated Oil & Gas, Inc.

P. O. BOX 2038
FARMINGTON, NEW MEXICO 87499
(505) 632-8056

February 6, 1985

Dugan Production Corporation
Attn: Mr. Tom Dugan
Box 208
Farmington, New Mexico 87499

Re: Waiver for Administrative Approval of Proposed Downhole Water
Injection Well for Consolidated Oil & Gas, Inc. Langendorf 3,
Blanco Mesa Verde, 925' FSL & 1355' FEL, Sec 34, T31N,
R13W, San Juan Co., New Mexico

Dear Mr. Dugan,

Consolidated Oil & Gas, Inc. has submitted an application to the New Mexico Oil Conservation Division, as outlined in NMOC Rule 701-B, to apply for approval to administratively inject produced waters from wells in the La Plata area. We are notifying your office of our intent, and would like you to sign and return each copy of the Waiver of Objection in the self addressed envelopes.

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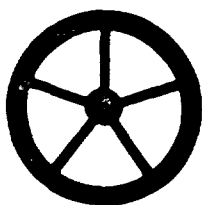
If you have any questions concerning this request please contact Wayne Converse at 632-8056.

Yours very truly,

Dale Richardson
Production & Drilling Superintendent

DER:WLC:wc
Enclosures

cc: N. M. Oil Conservation Division, Santa Fe
N. M. Oil Conservation Division, Aztec



Consolidated Oil & Gas, Inc.

P. O. BOX 2038
FARMINGTON, NEW MEXICO 87499
(505) 632-8056

February 6, 1985

Amoco Production Company
Attn: Mr. Tim Altendorf
501 Airport Drive
Farmington, New Mexico 87401

Re: Waiver for Administrative Approval of Proposed Downhole Water
Injection Well for Consolidated Oil & Gas, Inc. Langendorf 3,
Blanco Mesa Verde, 925' FSL & 1355' FEL, Sec 34, T31N,
R13W, San Juan Co., New Mexico

Dear Mr. Altendorf,

Consolidated Oil & Gas, Inc. has submitted an application to the New Mexico Oil Conservation Division, as outlined in NMOCD Rule 701-B, to apply for approval to administratively inject produced waters from wells in the La Plata area. We are notifying your office of our intent, and would like you to sign and return each copy of the Waiver of Objection in the self addressed envelopes.

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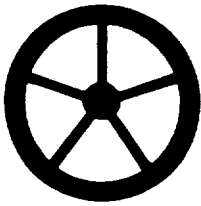
If you have any questions concerning this request please contact Wayne Converse at 632-8056.

Yours very truly,

Dale Richardson
Production & Drilling Superintendent

DER:WLC:wc
Enclosures

cc: N. M. Oil Conservation Division, Santa Fe
N. M. Oil Conservation Division, Aztec



Consolidated Oil & Gas, Inc.

P. O. BOX 2038

FARMINGTON, NEW MEXICO 87499

(505) 632-8056

February 6, 1985

Union Texas Petroleum Corporation
Attn: Mr. Rudy Motto
P.O. Box 1290
Farmington, New Mexico 87499

Re: Waiver for Administrative Approval of Proposed Downhole Water Injection Well for Consolidated Oil & Gas, Inc. Langendorf 3, Blanco Mesa Verde, 925' FSL & 1355' FEL, Sec 34, T31N, R13W, San Juan Co., New Mexico

Dear Mr. Motto,

Consolidated Oil & Gas, Inc. has submitted an application to the New Mexico Oil Conservation Division, as outlined in NMOCD Rule 701-B, to apply for approval to administratively inject produced waters from wells in the La Plata area. We are notifying your office of our intent, and would like you to sign and return each copy of the Waiver of Objection in the self addressed envelopes.

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If you have any questions concerning this request please contact Wayne Converse at 632-8056.

Yours very truly,

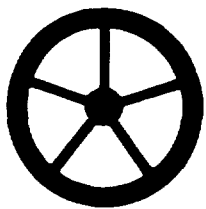
Dale Richardson

Production & Drilling Superintendent

DER:WLC:wc

Enclosures

cc: N. M. Oil Conservation Division, Santa Fe
N. M. Oil Conservation Division, Aztec



Consolidated Oil & Gas, Inc.

P. O. BOX 2038
FARMINGTON, NEW MEXICO 87499
(505) 632-8056

February 6, 1985

C. M. Paul
P.O. Box 208
Farmington, New Mexico 87499

Re: Waiver for Administrative Approval of Proposed Downhole Water Injection Well for Consolidated Oil & Gas, Inc. Langendorf 3, Blanco Mesa Verde, 925' FSL & 1355' FEL, Sec 34, T31N, R13W, San Juan Co., New Mexico

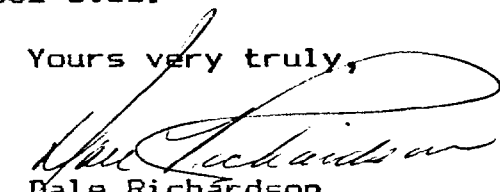
Dear Sir,

Consolidated Oil & Gas, Inc. has submitted an application to the New Mexico Oil Conservation Division, as outlined in NMOCD Rule 701-B, to apply for approval to administratively inject produced waters from wells in the La Plata area. We are notifying your office of our intent, and would like you to sign and return each copy of the Waiver of Objection in the self addressed envelopes.

Please mail the waivers to Frank Chavez, New Mexico Oil Conservation Division, 1000 Rio Brazos Rd., Aztec, New Mexico 87410 and Dale Richardson, Consolidated Oil & Gas, Inc., P. O. Box 2038, Farmington, New Mexico 87499.

If you have any questions concerning this request please contact Wayne Converse at 632-8056.

Yours very truly,


Dale Richardson
Production & Drilling Superintendent

DER:WLC:wc
Enclosures

cc: N. M. Oil Conservation Division, Santa Fe
N. M. Oil Conservation Division, Aztec

WAIVER OF OBJECTION AND
CONSENT FOR PROPOSED
WATER INJECTION WELL

FOR CONSOLIDATED OIL & GAS, INC.

THE UNDERSIGNED, as an offset operator/lease holder of a lease

offsetting LANGENDORF 3, Proposed MV Injection Well
 925' FSL & 1355' FEL
 Sec 34, T31N, R13W
 San Juan Co., New Mexico

Does hereby acknowledge receipt of the letter requesting approval
of the proposed captioned injection well.

The undersigned hereby waives any objection to this application
and voluntarily consents to the proposed drilling of the above
captioned injection well.

SIGNED: _____

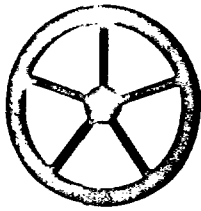
NAME: _____

TITLE: _____

FIRM: _____

DATE: _____

Please find enclosed self addressed envelopes. Mail one copy to
Frank Chavez, New Mexico Oil Conservation Division, 1000 Rio Brazos
Rd., Aztec, New Mexico 87410 and Dale Richardson, Consolidated Oil
& Gas, Inc., P. O. Box 2038, Farmington, New Mexico 87499



Consolidated Oil & Gas, Inc.

P. O. BOX 2038
FARMINGTON NEW MEXICO 87499
(505) 632-8056

March 1, 1985

Amoco Production Company
Attn: Mr. Tim Altendorf
501 Airport Drive
Farmington, New Mexico 87401

Re: Notice of New Location for Proposed Downhole Water Injection
Well for Consolidated Oil & Gas, Inc. Langendorf 3,
Blanco Mesaverde, 1097'FSL & 1439'FEL, Sec 34, T31N,
R13W, San Juan Co., New Mexico

Dear Mr. Altendorf,

Consolidated Oil & Gas, Inc. previously notified your company of our intent to drill a water disposal well in the La Plata area. Due to an archeological find near the old location of 925'FSL & 1355'FEL, we moved the proposed site over 100' northwest to the above location.

If you have any questions concerning this change, please call me at 632-8056 or address your letter to Consolidated Oil & Gas, Inc., Attention: Wayne Converse, P. O. Box 2038 Farmington, New Mexico 87499.

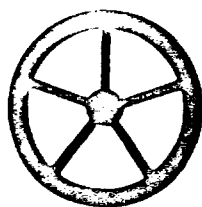
Yours very truly,

Wayne L. Converse

Wayne L. Converse
District Engineer

WLC:wc

cc: N. M. Oil Conservation Division, Santa Fe
N. M. Oil Conservation Division, Aztec



Consolidated Oil & Gas, Inc.

P. O. BOX 2038
FARMINGTON, NEW MEXICO 87499
(505) 632-8056

March 1, 1985

Dugan Production Corporation
Attn: Mr. Tom Dugan
P. O. Box 208
Farmington, New Mexico 87499

Re: Notice of New Location for Proposed Downhole Water Injection
Well for Consolidated Oil & Gas, Inc. Langendorf 3,
Blanco Mesaverde, 1097'FSL & 1439'FEL, Sec 34, T31N,
R13W, San Juan Co., New Mexico

Dear Mr. Dugan,

Consolidated Oil & Gas, Inc. previously notified your
company of our intent to drill a water disposal well in the
La Plata area. Due to an archeological find near the old
location of 925'FSL & 1355'FEL, we moved the proposed site
over 100' northwest to the above location.

If you have any questions concerning this change, please
call me at 632-8056 or address your letter to Consolidated
Oil & Gas, Inc., Attention: Wayne Converse, P. O. Box 2038
Farmington, New Mexico 87499.

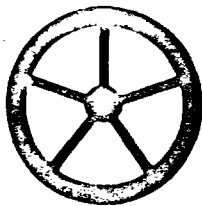
Yours very truly,

Wayne L. Converse

Wayne L. Converse
District Engineer

WLC:wc

cc: N. M. Oil Conservation Division, Santa Fe
N. M. Oil Conservation Division, Aztec



Consolidated Oil & Gas, Inc.

P. O. BOX 2038

FARMINGTON NEW MEXICO 87499

(505) 632-8056

March 1, 1985

C. M. Paul
Attn: Mr. Tom Dugan
P. O. Box 208
Farmington, New Mexico 87499

Re: Notice of New Location for Proposed Downhole Water Injection
Well for Consolidated Oil & Gas, Inc. Langendorf 3,
Blanco Mesaverde, 1097'FSL & 1439'FEL, Sec 34, T31N,
R13W, San Juan Co., New Mexico

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Consolidated Oil & Gas, Inc. previously notified your
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La Plata area. Due to an archeological find near the old
location of 925'FSL & 1355'FEL, we moved the proposed site
over 100' northwest to the above location.

If you have any questions concerning this change, please
call me at 632-8056 or address your letter to Consolidated
Oil & Gas, Inc., Attention: Wayne Converse, P. O. Box 2038
Farmington, New Mexico 87499.

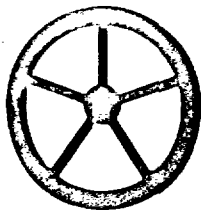
Yours very truly,

Wayne L. Converse

Wayne L. Converse
District Engineer

WLC:wc

cc: N. M. Oil Conservation Division, Santa Fe
N. M. Oil Conservation Division, Aztec



Consolidated Oil & Gas, Inc.

P. O. BOX 2038
FARMINGTON, NEW MEXICO 87499
(505) 632-8056

March 1, 1985

El Paso Natural Gas Company
Attn: Mr. Don Reed
P. O. Box 990
Farmington, New Mexico 87499

Re: Notice of New Location for Proposed Downhole Water Injection
Well for Consolidated Oil & Gas, Inc. Langendorf 3,
Blanco Mesaverde, 1097'FSL & 1439'FEL, Sec 34, T31N,
R13W, San Juan Co., New Mexico

Dear Mr. Reed,

Consolidated Oil & Gas, Inc. previously notified your company of our intent to drill a water disposal well in the La Plata area. Due to an archeological find near the old location of 923'FSL & 1335'FEL, we moved the proposed site over 100' northwest to the above location.

If you have any questions concerning this change, please call me at 632-8056 or address your letter to Consolidated Oil & Gas, Inc., Attention: Wayne Converse, P. O. Box 2038 Farmington, New Mexico 87499.

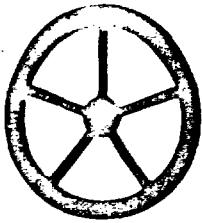
Yours very truly,

Wayne L. Converse

Wayne L. Converse
District Engineer

WLC:wc

cc: N. M. Oil Conservation Division, Santa Fe
N. M. Oil Conservation Division, Aztec



Consolidated Oil & Gas, Inc.

P. O. BOX 2038
FARMINGTON, NEW MEXICO 87499
(505) 632 8056

March 1, 1985

Union Texas Petroleum Corporation
Attn: Mr. Rudy Motto
P. O. Box 1290
Farmington, New Mexico 87499

Re: Notice of New Location for Proposed Downhole Water Injection
Well for Consolidated Oil & Gas, Inc. Langendorf 3,
Blanco Mesaverde, 1097'FSL & 1439'FEL, Sec 34, T31N,
R13W, San Juan Co., New Mexico

Dear Mr. Motto,

Consolidated Oil & Gas, Inc. previously notified your company of our intent to drill a water disposal well in the La Plata area. Due to an archeological find near the old location of 925'FSL & 1355'FEL, we moved the proposed site over 100' northwest to the above location.

If you have any questions concerning this change, please call me at 632-8056 or address your letter to Consolidated Oil & Gas, Inc., Attention: Wayne Converse, P. O. Box 2038 Farmington, New Mexico 87499.

Yours very truly,

Wayne L. Converse

Wayne L. Converse
District Engineer

WLC:wc

cc: N. M. Oil Conservation Division, Santa Fe
N. M. Oil Conservation Division, Aztec



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE 3-12-85

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD X _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated 3-4-85
for the Consolidated Oil & Gas Langendorf #3 0-34-31N-13W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

E. B. Buel