



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 3-8-85

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. Bruch



Consolidated Oil & Gas, Inc.

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

February 25, 1985

RECEIVED

MAR 04 1985

OIL CON. DIV.
DIST. 3

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.

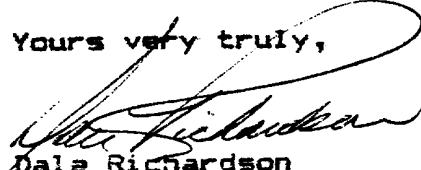
The proposed well is to be drilled with 8 5/8" surface casing set at 250' and 5 1/2" casing set at 4700' to protect all fresh water zones. Cement design is to be run to surface and a cement bond log will be run upon completion.

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:WLC: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.

RECEIVED
MAR 04 1985
OIL CON. DIV.
DIST. 3

ATTACHMENT 1

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

XXXXXX	XXXXXXXXXX
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LANGENDORF 3
1097'FSL & 1439'FEL
Sec 34, T31N, R13W
San Juan Co., NM
Lease # SF-0784633-5/8", 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 mud

FORMATION 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#
flocalc/sx. Tail-in w/
100 sx 50/50 pozmix w/ 2%
gel, 1/4# flocalc/sx. Cmt
will be calculated to go to
surface plus 20% overage
after caliper log is run.

ED1	IV1
-----	-----

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	XXXXXXXXXX
----	------------

2-7/8" tbg @ 4300'
(Plastic coated)

Baker Loc Set Pkr
@ 4300'
(Plastic coated)

5-1/2", 15.5# K-35 casing
@ 4700'. Cmt 1st stage
w/ 50/50 pozmix w/ 2% gel,
1/4# flocalc/sx. Tail-in
w/ 100 sx Cl "H" neat. Cmt
will be calculated to go to
the DV tool plus 20% overage
after caliper log is run.

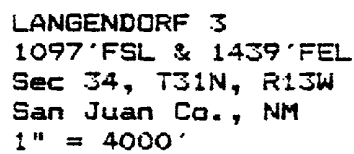
o1	o1	o1
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Point Lookout perf
interval: 4340-4550'
(Selectively perf w/
1 JSPF)

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
at the time the well is drilled.

Consolidated Oil & Gas, Inc.
Proposed Point Lookout
Water Disposal Well

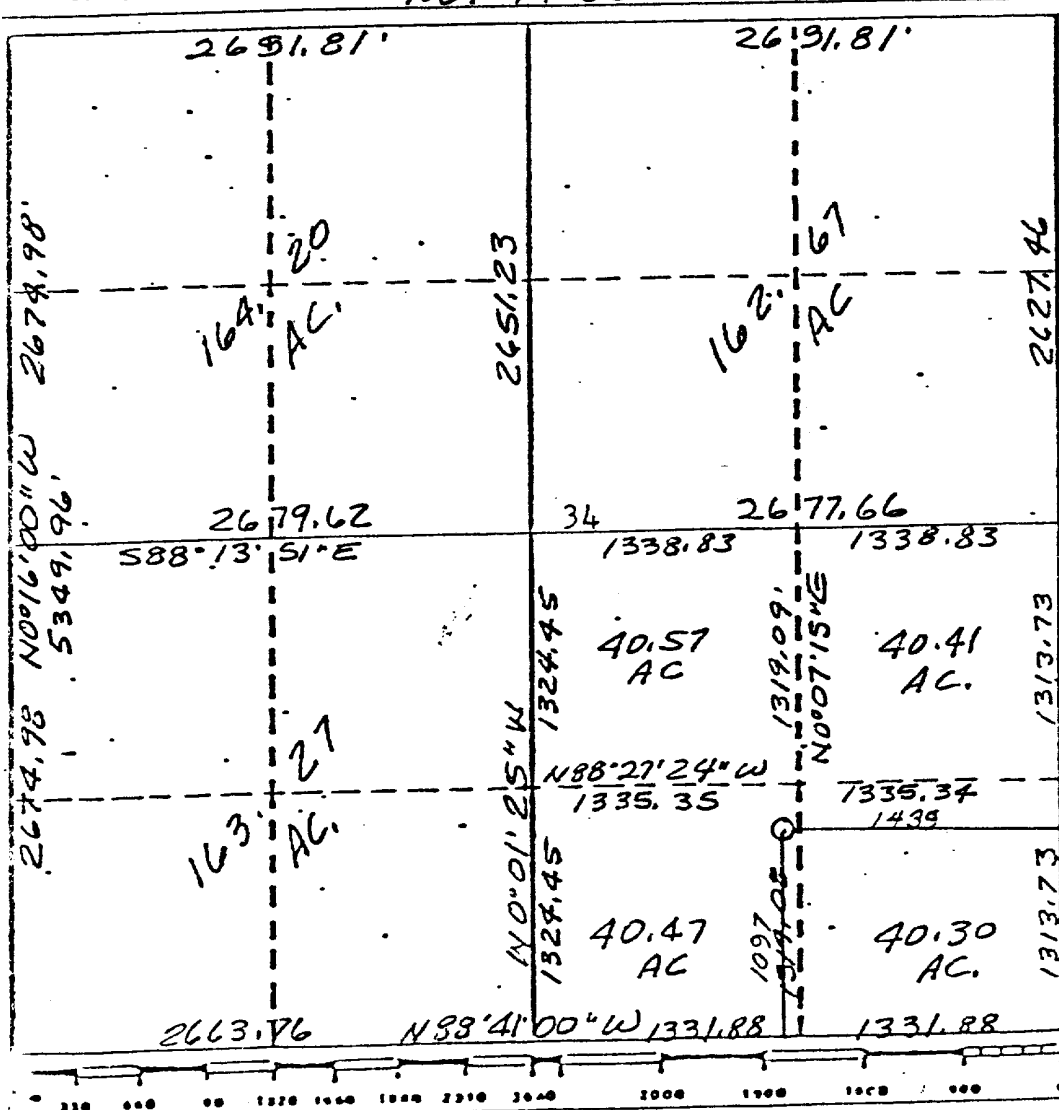


Effective 1-4-63

All distances must be from the outer boundaries of the Section.									
Operator CONSOLIDATED OIL & GAS, INC.				Lease LANGENDORF				Well No. 3	
Unit Letter O		Section 34		Township 31 NORTH		Range 13 WEST		County SAN JUAN	
Actual Footage Location of Wells									
1097		feet from the		SOUTH		line and		1439	
		feet from the		EAST		line			
Ground Level Elev. 5860.		Producing Formation				Pool		Dedicated Acres	
								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 R. Converse

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 actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

7259
Date Received
February 22, 1985
Registered 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	INDC
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	5886'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. Csg	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 (Csg cut & well P&A)	1st-30 sx-none (Csg cut & well P&A) Wellbore diagram is en- closed.

The New Drilling Company
Plug and Abandonment Schematic
for Mesaverde Completion

Elevation: 5856'KB
5848'GL

IP&A
MARK
XXXXXXXXXXXXXXXXXXXX

McCORD 1
1190'FNL & 985'FEL
Sec 3, T30N, R13W
San Juan Co., NM
Lease # SF-077924

10-3/4", 32#, casing @ 177'
Cmt w/ 125 sx. Cmt
top est. at surface.

200 sx cmt
400' to surface
< / \ >

15" hole to 195'

FORMATION TOPS (est.)

Ojo Alamo - 323'
Fruitland - 1310'
PC - 1893'
Cliff House - 3525'
Menefee - 3685'
Point Lookout - 4315'
Mancos - 4585'
T D - 4623'

Mud
1900' to 400'
/ \
100 sx cmt
2100' to 1900'

Mud
4200' to 2100'
/ \
#

7" csg cut at 3210'

7", 20#, J-55 casing
set at 4274'. Cmt w/
150 sx cmt. Cmt top
est. at 3250'.

50sx cmt
4400' - 4200'
/ \

5-1/2" csg top at
4147'

9-7/8" hole to 4274'

5-1/2", 15.5#, J-55 casing
from 4147-4623'. Cmt w/
50 sx regular cmt. Cmt
top est. at 4147'.

FILL

Point Lookout perf
intervals: 4492-4370'
& 4350-4302'

6-1/4" hole to 4623'

< / / / / / / / >

*NOTE - All values were estimated from incomplete or
conflicting data submitted on sundry notices.

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 BWPD is based on low market demand.

WELL NAME	ZONE	4/4	LOCATION	LEASE NO.	BWPD (MAX)	BWPD (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
DUKE 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 BWPD.

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	88	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	8	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	842	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 19-31N-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

[illegible][illegible]

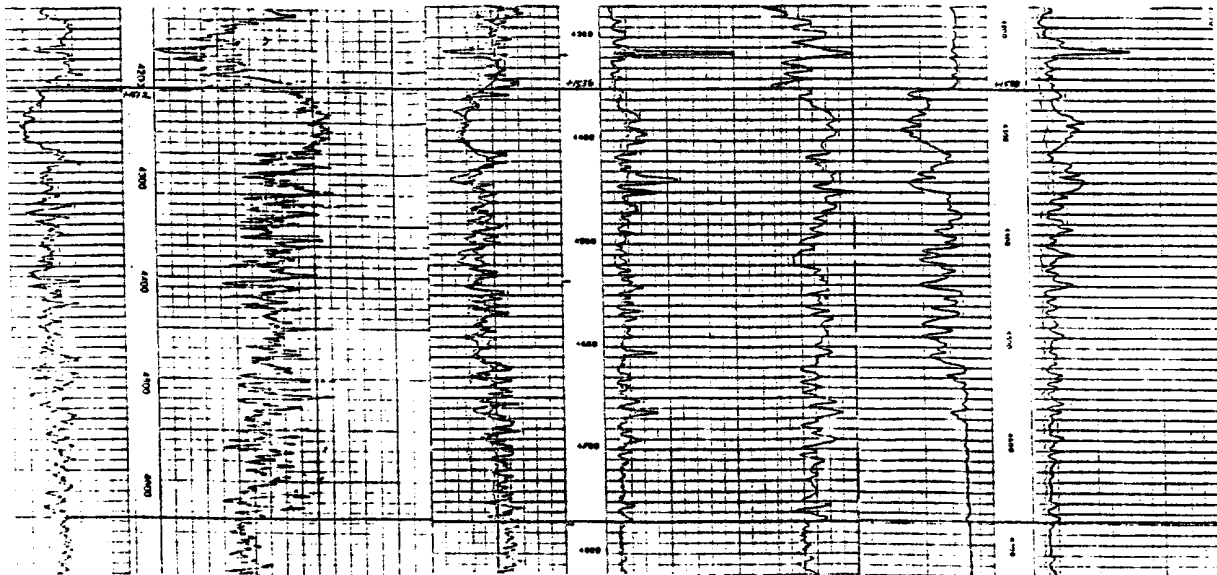

WELL LOG REPORT FORM

COMPANY SHIMIZU OIL Job Service
AMBUSSION COMPANY FRL-48
 WELL FEDERAL LTA #1 Location of well
391' x 42'
11-20' 10"
✓
 PROD WASH. 344228 3
 LOCATION SEC. 16-T11N-14W
 COUNTY SAB. CO. Measured off of
 STATE NEW MEXICO 2-5 8-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24
2- = OIL
3- = GAS
4- = WATER
 PRINTED NAME _____

RECEIVED
 OIL & GAS
 DIVISION
 JUN 1 1961

COUNTY SAB. CO. NEW MEXICO
 FIELD WASH. 344228
 WELL FEDERAL LTA #1
 COMPANY SHIMIZU OIL
AMBUSSION COMPANY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 8



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 B

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 9

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

[illegible]

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 Detour Pet. Corp.
Street and No.	P.O. Box 1290
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

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	Ougen 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

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	Arco 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

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

P 597 654 948

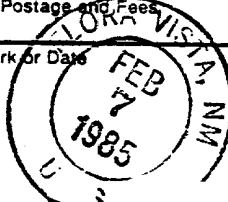
RECEIPT FOR CERTIFIED MAIL

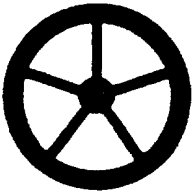
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

★ U.S.G.P.O. 1993-403-517

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	Garrison 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 NMOCDD 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.

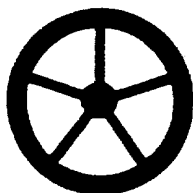
If you have any questions concerning this request please contact Wayne Converse at 632-8056.

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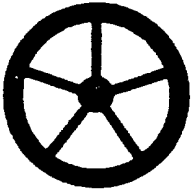
If you have any questions concerning this request please contact Wayne Converse at 632-8056.

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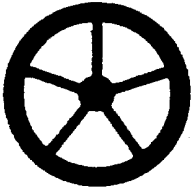
If you have any questions concerning this request please contact Wayne Converse at 632-8056.

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 NMDCD 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.

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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

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: _____

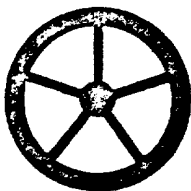
NAME: _____

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.

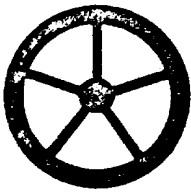
Yours very truly,

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

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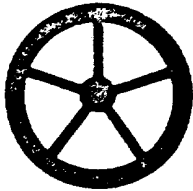
Yours very truly,

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,
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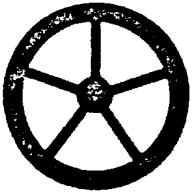
Yours very truly,

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 925'FSL & 1355'FEL, we moved the proposed site over 100' northwest to the above location.

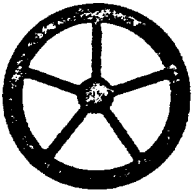
If you have any questions concerning this change, please call me at 632-8056 or address your letter to Consolidated Oil & Gas, Inc., Attention: Wayne Converse, P. O. Box 2038 Farmington, New Mexico 87499.

Yours very truly,

Wayne L. Converse
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

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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

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

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

**REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS**

Operator Snyder Oil Corporation		Well API No. 30-045-26275-00
Address 1801 California St. Ste 3500, Denver, CO 80202		
Reason(s) for Filing (Check proper box) New Well <input type="checkbox"/> Change in Transporter of: Recompletion <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Change in Operator <input checked="" type="checkbox"/> Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/> Other (Please explain) <input type="checkbox"/>		
If change of operator give name and address of previous operator Columbus Energy Corp. P.O. Box 2038, Farmington, NM 87499		

II. DESCRIPTION OF WELL AND LEASE

Lease Name LANGENDORF	Well No. 3	Pool Name, Including Formation Blanco Mesaverde	Kind of Lease Federal	Lease No. NMSFD078463
Location Unit Letter 0 1097 Feet From The South Line and 1439 Feet From The East Line Section 34 Township 31N Range 13W NMPM SAN JUAN County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> GRACE ROY MEYER	Address (Give address to which approved copy of this form is to be sent) P.O. Box 256, Farmington, NM 87499					
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rgn.	Is gas actually connected?	When?
					No	

If this production is commingled with that from any other lease or pool, give commingling order number:

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature *Patricia Tognohi*
Printed Name **Patricia Tognohi** Title **Engr Tech**
Date **10/01/90** Telephone No. **303-292-9100**

OIL CONSERVATION DIVISION

APR 15 1991

Date Approved _____
By *Burt J. Shum*
Title **SUPERVISOR DISTRICT 3**

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

RECEIVED
APR 15 1991
OIL CON. DIV
DIST. 3

PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-104
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☒ AMENDED REPORT

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Chateau Oil and Gas, Inc. 2515 McKinney Ave., Ste 840 Dallas, TX 75201		* OGRID Number 159819	
* API Number 30 - 045-26275	* Pool Name S.W.D. MV		* Reason for Filing Code CH 11/22/96
* Property Code	* Property Name LANGENDORF		* Pool Code 96160
			* Well Number 3

II. ¹⁰ Surface Location

Ul or lot no. 0	Section 34	Township 31N	Range 13W	Lot Idn	Feet from the 1097	North/South Line S	Feet from the 1439	East/West line E	County SJ
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11 Bottom Hole Location

Ul. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
* Loc Code F	* Producing Method Code		* Gas Connection Date		* C-129 Permit Number		* C-129 Effective Date		* C-129 Expiration Date

III. Oil and Gas Transporters

* Transporter OGRID	* Transporter Name and Address	* POD	* O/G	* POD ULSTR Location and Description
			G	
			O	

IV. Produced Water

* POD	* POD ULSTR Location and Description

V. Well Completion Data

* Spud Date	* Ready Date	* TD	* PBD	* Perforations
* Hole Size		* Casing & Tubing Size	* Depth Set	* Sacks Cement

VI. Well Test Data

* Date New Oil	* Gas Delivery Date	* Test Date	* Test Length	* Tbg. Pressure	* Csg. Pressure
* Choke Size	* Oil	* Water	* Gas	* AOF	* Test Method

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Dana M. Dutcher*

Printed name: DANA M. DUTCHER

Title: PRESIDENT

Date: 1/29/97

Phone: (214) 953-0198

OIL CONSERVATION DIVISION

Approved by:

Title: SUPERVISOR DISTRICT #3

Approval Date:

FEB 9 1997

* If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

TERRY L. SAVAGE

Printed Name

ATTORNEY-IN-FACT