

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☒ no
- II. Operator: John Yuronka
Address: 102 Petroleum Bldg., Midland, Texas 79701
Contact party: John Yuronka Phone: (915) 684-6223
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ 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.
- * 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:
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.).
- *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.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground 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: John Yuronka Title Authorized Agent
Signature: John Yuronka Date: 11-5-82
- * 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. _____

The map displays the Custer, South Dakota area, featuring various oil and gas fields and company names. Key sections include:

- Top Left:** Fields labeled "U.S. Jack", "El Paso Nat.", "King Est. E.", "Continental", and "Amoco".
- Top Center:** A large section labeled "LANGLIE JACK UNIT" with "CONT'L. (OPER.)" below it.
- Top Right:** Fields labeled "Texaco", "Shell", "Alpha 21", and "El Paso".
- Middle Left:** Fields labeled "A.R. Co.", "Harrison", "D. Hartman", "Sowell", and "L.E. Wake, et al".
- Middle Center:** A large section labeled "A.R. Co. ('WN')".
- Middle Right:** Fields labeled "Amoco", "APCO", "Tr. 1", "Tr. 2", and "Tr. 3".
- Bottom Left:** Fields labeled "Exxon", "Gulf", "Woolworth", "D. Hartman", "Gulf", "Woolworth", and "C.D. Woolworth".
- Bottom Center:** A large section labeled "WOOLWORTH" and "HUSKY".
- Bottom Right:** Fields labeled "Phillips", "Tr. 11", "AMERADA", "Husky", "No. Shore", "Burlington", "Tr. 9", "Tr. 10", and "Woolworth".

The map also includes numerous well numbers, company names, and geographical features like "CUSTER" and "SANTA FE".

ARCO Oil & Gas Company

W. H. Harrison "A" WN

OPERATOR

LEASE

2

660' FN&WL

29

24-S

37-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

SchematicTabular DataSurface CasingSize 13-3/8 " Cemented with 250 sx.TOC Circulated ? feet determined by _____

Hole size _____

Intermediate CasingSize 9-5/8 " Cemented with 700 sx.TOC Circulated ? feet determined by _____

Hole size _____

Long stringSize 7 " Cemented with 100 sx.TOC est. 2650 feet determined by _____Hole size 8-3/4"Total depth 3650'Injection interval_____ feet to _____ feet
(perforated or open-hole, indicate which)

Originally Open Hole 3356' - 3650'.

Cement Retainer @ 3345' & sqzd.

open hole w/150 sxs.

Red Bed 1165'.

Jalmat Perfs.
2931' - 3333'Set Cement
Retainer @
3345'. Sqzd.
OH w/150 sxs.

7" @ 3356'

TD 3650'

Tubing size _____ lined with _____ set in a

(material)

_____ packer at _____ feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation _____
- Name of field or Pool (if applicable) _____
- Is this a new well drilled for injection? ☐ Yes ☐ No
If no, for what purpose was the well originally drilled? _____
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

ARCO Oil & Gas Company	W. H. Harrison "D" WN			
OPERATOR	LEASE			
1	1980' FSL & 660' FWL	29	24-S	37-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic

Tabular Data

Surface Casing

Size 13 " Cemented with 250 sx.

TOC Circulated? feet determined by _____

Hole size _____

Intermediate Casing

Size 9-5/8 " Cemented with 750 sx.

TOC Circulated? feet determined by _____

Hole size _____

Long string

Size 7 " Cemented with 100 sx.

TOC est. 2700' feet determined by _____

Hole size 8-3/4"

Total depth 3699'

Injection interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Plugged back 3699' to 3668'.

Plugged back 3665' to 3500'.

Dually completed in Jalmat and
Langlie Mattix Pools.

Set Plug in receptacle @ 3332' and
now only Jalmat Gas.

Also ARCO Oil & Gas Co.

W. H. Harrison "D" WN #4

Red Bed 1115'.

Jalmat Perfs.

2930' - 3010"

Set Plug in
Receptacle @
3332'

Langlie Mattix
Perfs.

3360' - 3400'

3465' - 3490'

PB 3500'

7" @ 3598'

PB 3668'

TD 3699'

Tubing size _____ lined with _____ set in a

(material)

_____ packer at _____ feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☐ No

If no, for what purpose was the well originally drilled? _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

ARCO Oil & Gas Company		W. H. Harrison "D" WN	
OPERATOR		LEASE	
6	660' FSL & 1980' FWL	29	24-S
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP
			37-E
			RANGE

SchematicTabular DataSurface CasingSize 7-5/8 " Cemented with 160 sx.TOC Circulated ? feet determined by _____

Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long stringSize 4-1/2 " Cemented with 50 sx.TOC 1500 feet determined by _____

Hole size _____

Total depth 3656'Injection interval_____ feet to _____ feet
(perforated or open-hole, indicate which)Set Cement Retainer @ 3350' & sqzd.
w/150 sx.

Now Jalmat Gas Producer.

Red Bed 960'.

Using 6-1/4" hole and Class C Neat,
est. TOC is 2925'.

Jalmat Perfs.

2951' - 3259'

Set Cement
Retainer @
3350'. Sqzd.
w/150 sx.Langlie Mattix
Perfs.

3428' - 3533'

7" @ TD

TD 3656'

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet
(brand and model)

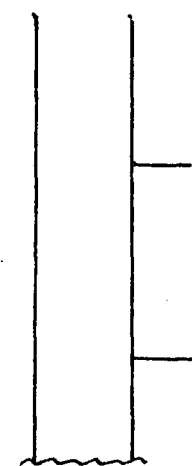
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation _____
- Name of Field or Pool (if applicable) _____
- Is this a new well drilled for injection? ☐ Yes ☐ No
If no, for what purpose was the well originally drilled? _____
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

ARCO Oil & Gas Company		W. D. Harrison "D" WN	
OPERATOR		LEASE	
7	1980' FS&WL	29	24-S
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP
			37-E
			RANGE

Schematic

Jalmat Perfs.
2971' - 3357'

Set Retainer @
3410' & sqzd.
w/250 sxs.

Langlie Mattix
Perfs.

3431' - 3510'

3654' - 3687'

5-1/2" @ TD

TD 3756'

Tabular DataSurface Casing

Size 8-5/8 " Cemented with 1165 sx.

TOC Circulated feet determined by _____

Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5-1/2 " Cemented with 1000 sx.

TOC Circulated feet determined by _____

Hole size _____

Total depth 3756'

Injection interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Water, trace of oil & 27 MCFPD from
Langlie Mattix. Set Retainer @
3410' & sqzd. w/250 sxs.
Now Jalmat Oil Producer.

Tubing size _____ lined with _____ set in a

(material)

_____ packer at _____ feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☐ No

If no, for what purpose was the well originally drilled? _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

WELLS IN AREA OF REVIEW

Operator - Continental Oil Company

Jack B-30 Well #1

1650' FNL & 990' FEL, Unit H of 30-24S-37E.
7-5/8" @ 1164' w/550 sxs. Circulated?
Red Bed not reported.
5-1/2" @ 2833' w/500 sxs. Circulated?
TD 3372'. *Jal.*


Jack A-29 Well #5

1750' FEL & 825' FNL, Unit B of 29-24S-37E.
8-5/8" @ 770' w/350 sxs. Circulated?
Red Bed 1185'.
5-1/2" @ 3630' w/150 sxs. TOC 2950'.
Perfs. 3529' - 3612'. *h.M.*

Jack A-29 Well #7

2250' FSL & 1750' FEL, Unit J of 29-24S-37E.
8-5/8" @ 770' w/350 sxs. Circulated?
Red Bed not reported.
5-1/2" @ 3660' w/150 sxs. TOC: est. 2360'.
Perfs. 3395' - 3579'. *LM*

Jack A-29 Well #8

1980' FS & EL, Unit J of 29-24S-37E.
8-5/8" @ 400' w/260 sxs. Circulated?
Red Bed 1190'.
5-1/2" @ 2870' w/200 sxs. TOC: 1940'.
Open hole: 2870' - 3200'. *Jal* 

INJECTION WELL DATA SHEET

Continental Oil Company		Jack A-29	
OPERATOR		LEASE	
4	990' FSL & 1650' FEL	29	24-S 37-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP RANGE

Schematic

WO 2-24-70: Fished & cleaned out to 3579'. Ran log. Pkr. @ 3346'. Commenced injection on 4-3-70.

WO 5-18-73: Dumped pea gravel & sand down csg. & tagged @ 3424'. Pkr. @ 3200' & sqzd. w/200 sxs. Drilled out cement 3267'-3435' & tested squeeze to 900#. Pkr. @ 3200' & sqzd. open hole w/200 sxs. 3386'-3440'. Presently listed as injection well.

Tabular DataSurface CasingSize ? " Cemented with sx.TOC feet determined by Hole size Intermediate CasingSize " Cemented with sx.TOC feet determined by Hole size Long stringSize 7 " Cemented with 900 sx.TOC Circulated? feet determined by Hole size ? Total depth 3589' Csg. set @ 3415'.Injection interval feet to feet
(perforated or open-hole, indicate which)

Spudded 6-30-40.

Tubing size lined with (material) set in a
 packer at feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation
- Name of Field or Pool (if applicable)
- Is this a new well drilled for injection? ☒ Yes ☐ No
If no, for what purpose was the well originally drilled?
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

INJECTION WELL DATA SHEET

Continental Oil Company		Jack A-29		
OPERATOR	LEASE			
6	1900' FSL & 1700' FEL	29	24-S	37-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic

Tabular Data

Surface Casing

Size 8-5/8 " Cemented with 350 sx.

TOC Circulated? feet determined by _____

Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5-1/2 " Cemented with 150 sx.

TOC 2650 feet determined by _____

Hole size _____

Total depth _____

Injection interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Dually completed in Jalmat & Langlie Mattix Pools. Then Jalmat sqzd. to convert to an injection well in the Langlie Mattix, Red Bed 1180'.

Langlie Mattix
Perfs:

3414' - 3601'

5-1/2" @ TD

TD 3675'

Tubing size _____ lined with _____ set in a

(material)

_____ packer at _____ feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☐ No

If no, for what purpose was the well originally drilled? _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

Gulf Oil Corporation		C. D. Woolworth		
OPERATOR	LEASE			
1	1980' FSL & 660' FEL	30	24-S	37-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

SchematicTabular DataSurface CasingSize 10-3/4 " Cemented with 225 sx.TOC Circulated? feet determined by _____

Hole size _____

Intermediate CasingSize 7-5/8 " Cemented with 600 sx.TOC Circulated? feet determined by _____

Hole size _____

Long stringSize 5-1/2 " Cemented with 125 sx.

TOC _____ feet determined by _____

Hole size _____

Total depth _____

Injection interval_____ feet to _____ feet
(perforated or open-hole, indicate which)Originally Open Hole Completion from
3126' - 3217'.Deepened to 3803'. PB 3773'. Gas Well.
Cast Iron BP @ 2990' w/cement to 2955'.
Perf. 1530'-33' & sqzsd. w/230 sx. to
the surface. P&A.Cement on 5-1/2" csg. well up into the
Salt Section.Perf. 1530'-1533'.
Sqzd. w/230 sx.
to surface. P&A.CIBP @ 2990'
w/cement on
top to 2955'

5-1/2" @ 3126'

Original TD
3217'

PB 3773'

Deepen to 3803'

Tubing size _____ lined with _____ set in a
(material)_____ packer at _____ feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☐ No

If no, for what purpose was the well originally drilled? _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals
and give plugging detail (sacks of cement or bridge plug(s) used) _____5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in
this area. _____

WELLS IN AREA OF REVIEW

Operator - Doyle Hartman

Henry Harrison #1

330' FSL & 1650' FWL, Unit N of 20-24S-37E.
8-5/8" @ 443' w/325 sxs. Circulated.
Red Bed @ 1180'.
5-1/2" @ 3816' (TD) w/1200 sxs. Circulated.
Gross Interval of Perfs.: 3390' - 3454'.

Gulf Eddie Corrigan #1

990' FSL & 330' FEL, Unit P of ³⁰~~20~~-24S-37E.
8-5/8" @ 611' w/350 sxs. Circulated.
Red Bed 1100'.
5-1/2" @ 3748' (TD) w/700 sxs. Circulated.
Gross Interval of Perfs.: 3364' - 3502'.

Gulf Eddie Corrigan #2

2310' FSL & 330' FEL, Unit I of ³⁰~~20~~-24S-37E.
8-5/8" @ 461' w/350 sxs. Circulated.
Red Bed 1130'.
5-1/2" @ 3732' w/775 sxs. Circulated.
Gross Interval of Perfs.: 3389' - 3503'.

L.M. wells

WELLS IN AREA OF REVIEW

Operator - John Yuronka

Harrison Well #1

660' FWL & 1980' FNL, Unit E of 29-24S-37E.
8-5/8" @ 1190' w/600 sxs. Circulated.
Red Bed @ 1150'.
4-1/2" @ 3680' (TD) w/700 sxs. TOC estimated @
1000' but 25% excess cement added.
Perf. 3413' w/3 SPF; 3450', 3453', 3483', & 3518' w/2 SPF.
Spudded 8-21-78.

Harrison Well #2

330' FWL & 990' FSL, Unit D of 29-24S-37E.
8-5/8" @ 417' w/400 sxs. Circulated.
Red Bed @ 1157'.
4-1/2" @ 3682' (TD) w/900 sxs. Circulated.
Perf. 3393', 3399', 3435', & 3461' w/2 SPF; 3491' & 3494'
w/1 SPF.
Spudded 2-17-79.

Harrison Well #3

1650' FSL & 330' FWL, Unit L of 29-24S-37E.
8-5/8" @ 420' w/350 sxs. Circulated.
Red Bed @ 1125'.
4-1/2" @ 3670' w/700 sxs. Circulated.
Perf. 3410', 3445' & 3476' w/2 SPF; 3494' & 3510' w/1 SPF.
Spudded 8-23-79.

Harrison Well #4

890' FSL & 660' FWL, Unit M of 29-24S-37E.
8-5/8" @ 423' w/350 sxs. Circulated.
Red Bed @ 1117'.
5-1/2" @ 3653' w/675 sxs. Circulated.
Perf. 3404', 3438', 3442', 3470' & 3505' w/2 SPF.
Spudded 1-24-80.

Harrison "A" Well #1

990' FNL & 1650' FWL, Unit C of 29-24S-37E.
8-5/8" @ 417' w/350 sxs. Circulated.
Red Bed @ 1173'.
4-1/2" @ 3680' (TD) w/675 sxs. Circulated.
Perf. 3407', 3441', 3469' & 3504' w/2 SPF.
Spudded 2-28-79.