Citation
OIL & GAS CORP.

February 10, 2012

State of Colorado Oil & Gas Commission
1120 Lincoln Street, Suite 801
Denver, Colorado 80203

RE: Application to convert
Arthur Sindt #5 to disposal well

Citation Oil & Gas Corp. proposes to convert the current shut in Arthur Sindt #5 to a salt water disposal well in the D, J and O Sand formations of the West Padroni Field, Logan County, Colorado. The well is currently with 2 7/8" tubing set at 4891.60' the surface casing is set at 284' and cemented to surface with 250 sacks cement. The production casing is set at 5150' and cemented up hole with 150 sacks cement with a calculated top of cement at 4145'.

Name and depth to bottom of all underground sources of drinking water which may be affected by proposed operation. The Ogallala aquifer is known to occur at a depth of 300-430 feet in this area, the Dakota is found at a depth of 1594-1850', the Cheyenne is found at depth of 1877-2080' in this area.

Type of fluid to be injected into the Arthur Sindt #5 will be produced water from current or proposed producing wells within the West Padroni Field. (See exhibit for water analysis)

Citation requests a Min Volume 250 BWIPD and a Max Volume 5000 BWIPD,
Min Pressure 100 psi and a Maximum pressure of 1500 psi

Included in this application are the following:

Form 31 original and one copy

Form 26 original

Analysis of injection water

Analysis of injection zone water

Resistivity log strip

Surface Owners Agreement

Map and List of Surface and Mineral Owners within ¼ Mile Radius

Affidavit of Mailing and Notice to Surface Owners, Mineral Owners

Remedial Correction plan for wells: The plugged well within the ¼ mile area will be evaluated to see if they are plugged properly.

Plat ¼ Mile Area of Review Oil/Gas Wells

Plat ½ Mile Radius with List of Oil/Gas Wells and well information on each well along with the names and depths of formations producing, having produced or to be injected

Oil & Gas Lease covering the well location

Surface Facility Diagram

Form 33

Wellbore Diagram current and proposed

Well location plat

Form 4 Sundry with Technical page and proposed injection program and operation

History of Well log and Sundries

Aquifer Exemption Statement for the D – J and O sand

Copy of application to add J sand

7 day notice letter to surface owner

FORM
31
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY

UNDERGROUND INJECTION FORMATION PERMIT APPLICATION

1. Submit original and one copy of this form.
2. If data on this form is estimated, indicate as such.
3. Attachments – see checklist and explanation of attachments.
4. Aquifer exemption is required for all injection formations with water quality <10,000 TDS (Rule 322B). Immediately contact the Commission for further requirements if the total dissolved solids (TDS) as determined by water analysis for the injection zone is less than 10,000 ppm.
5. Attach a copy of the certified receipt to each notice to surface and mineral owner(s) or submit a sample copy of the notice and an affidavit of mailing or delivery with names and addresses of those notified. Each person notified shall be specified as either a surface or mineral owner as defined by C.R.S. 34-60-103(7).

Complete the Attachment Checklist

	Oper	OGCC
Form 31 Original & 1 Copy	✓	
Analysis fo Injection Zone Water	✓	
Analysis of Injection Water	✓	
Proposed Injection Program	✓	
Resistivity or Induction Log	✓	
Cement Bond Log		
Surface or Salt Water Displ Agrmt		
Notice to Surface/Mineral Owners	✓	
Remedial Correction Plan for Wells	✓	
Map Oil/Water Wells w/in 1/4 Mile	✓	
List Oil/Gas Wells w/in 1/2 Mile	✓	
Map Surface Owners w/in 1/4 Mile	✓	
List Surface Owners w/in 1/4 Mile	✓	
Map Mineral Owners w/in 1/4 Mile	✓	
List Mineral Owners w/in 1/4 Mile	✓	
Surface Facility Diagram	✓	
Wellbore Diagram	✓	
If Commercial Facility, Description of Ops & Area Served		
Unit Area Plat	✓	

Project Name: Arthur Sindt #5 Project Location: SW 31-10N-52W 6th PM

Project Type: ☐ Enhanced Recovery ☑ Disposal ☐ Simultaneous Disposal

Single or Multiple Well Facility? ☐ Single ☑ Multiple

IF UNIT OPERATIONS, ATTACH PLAT SHOWING UNIT AREA

County: Logan Field Name and Number: West Padroni

OGCC Operator Number: 17180

Name of Operator: Citation Oil & Gas Corp

Address: P.O. Box 690688

City: Houston State: TX Zip: 77269

Contact Name and Telephone:
Nathania Naftaly
No: 281-891-1570
Fax: 281-580-2168

Injection Fluid Type: ☑ Produced Water ☐ Natural Gas ☐ CO_2 ☐ Drilling Fluids
☐ Exempt Gas Plant Waste ☐ Used Workover Fluids ☐ Other Fluids (describe):

Commercial Facility? ☐ Yes ☑ No

If Yes, describe area of operation and types of fluids to be injected at this facility:

PROPOSED INJECTION FORMATIONS

FORMATION A (Name): D-Sand, J-Sand, O-Sand Porosity: 20%

Formation TDS: Frac Gradient: psi/ft Permeability: 500 md

Proposed Stimulation Program: ☐ Acid ☐ Frac Treatment ☑ None

FORMATION B (Name): Porosity:

Formation TDS: Frac Gradient: psi/ft Permeability:

Proposed Stimulation Program: ☐ Acid ☐ Frac Treatment ☑ None

Anticipated Project Operating Conditions

Under normal operating conditions, estimated fluid injection rates and pressures:

FOR WATER: A minimum of 250 bbls/day @ 100 psi to a maximum of 5000 bbls/day @ 1500 psi.

FOR GAS: A minimum of _____ mcf/day @ _____ psi to a maximum of _____ bbls/day @ _____ psi.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Nathania Naftaly Signed: Nathania Naftaly

Title: Permitting Analyst III Date: 2/4/2012

OGCC Approved: Title: Date:

Order No:

CONDITIONS OF APPROVAL, IF ANY:

UIC FACILITY NO:

FORM
26
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY

SOURCE OF PRODUCED WATER FOR DISPOSAL

This form must be completed for any new disposal site and for any change in sources of produced water for an existing disposal site.

Complete the Attachment Checklist

Chemical Analysis of fluid	Oper	OGCC

OGCC Operator Number: 17180
Name of Operator: Citation Oil & Gas Corp.
Address: P.O. Box 690688
City: Houston State: TX Zip: 77269

Contact Name and Telephone:
Nathania Naftaly
No: 281-891-1570
Fax: 281-580-2168

OGCC Disposal Facility Number:
Operator's Disposal Facility Name: Sindt Operator's Disposal Facility Number:
Location (QtrQtr, Sec, Twp, Rng, Meridian): SW 31-10-52W
Address:
City: State: Zip: County:

If more space is required, attach additional sheet.

Add Source: ☑ **Delete Source:** ☐
OGCC Lease No: API No: 05-075-66603 Well Name & No: Arthur Sindt 4
Operator Name: Citation Oil & Gas Corp. Operator No: 17180
Location: QtrQtr: NE/NE Section: 7 Township: 9N Range: 52W Producing Formation:
Analysis Attached? ☑ Yes ☐ No Transported to disposal site via: ☑ Pipeline ☐ Truck TDS: 7544

Add Source: ☑ **Delete Source:** ☐
OGCC Lease No: API No: 05075-06675 Well Name & No: Arthur Sindt 8
Operator Name: Citation Oil & Gas Corp. Operator No: 17180
Location: QtrQtr: NE/SW Section: 31 Township: 10N Range: 52W Producing Formation:
Analysis Attached? ☑ Yes ☐ No Transported to disposal site via: ☑ Pipeline ☐ Truck TDS: 6965

Add Source: ☑ **Delete Source:** ☐
OGCC Lease No: API No: 05-075-08596 Well Name & No: Arthur Sindt 10
Operator Name: Citation Oil & Gas Corp. Operator No: 17180
Location: QtrQtr: SW/SE Section: 6 Township: 9N Range: 52W Producing Formation:
Analysis Attached? ☑ Yes ☐ No Transported to disposal site via: ☑ Pipeline ☐ Truck TDS: 8323

Add Source: ☑ **Delete Source:** ☐
OGCC Lease No: API No: 05-075-09340 Well Name & No: Arthur Sindt 13
Operator Name: Citation Oil & Gas Corp. Operator No: 17180
Location: QtrQtr: SE/SW Section: 31 Township: 10N Range: 52W Producing Formation:
Analysis Attached? ☑ Yes ☐ No Transported to disposal site via: ☑ Pipeline ☐ Truck TDS: 6646

Add Source: ☑ **Delete Source:** ☐
OGCC Lease No: API No: 05-075-09370 Well Name & No: Arthur Sindt 14-H
Operator Name: Citation Oil & Gas Corp. Operator No: 17180
Location: QtrQtr: NE/SW Section: Township: Range: Producing Formation:
Analysis Attached? ☑ Yes ☐ No Transported to disposal site via: ☑ Pipeline ☐ Truck TDS: 8062

Add Source: ☑ **Delete Source:** ☐
OGCC Lease No: API No: 05-075-09333 Well Name & No: Fluarty 1
Operator Name: Citation Oil & Gas Corp. Operator No: 17180
Location: QtrQtr: NW/SE Section: 6 Township: 9N Range: 52W Producing Formation:
Analysis Attached? ☐ Yes ☐ No Transported to disposal site via: ☑ Pipeline ☐ Truck TDS: 8269

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.
Print Name: Nathania Naftaly Signed: Nathania Naftaly
Title: Permitting Analyst III Date: 2/3/2012

OGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:

Water Analysis Report

12/8/2011

Address:

Customer: Citation Oil & Gas
Attention: Herschel Kennedy
CC: Bob Rogers

Lease: Sindt
Formation:
Salesman: Randy Tipton

Target Name: Sindt 8 **Sample Point:** Sindt 8

Sample Date: 11/15/2011 **Test Date:** 11/30/2011

Water Analysis(mg/L)

Calcium	128
Magnesium	51
Barium	
Strontium	
Sodium(calc.)	2172
Bicarbonate Alkalinity	2113
Sulfate	16
Chloride	2485
Resistivity	0.9189

Appended Data(mg/L)

CO2	167
H2S	4.5
Iron	0
Oxygen	
Manganese	

Physical Properties

Ionic Strength(calc.	0.11
pH(calc.)	
Temperature(°F)	135
Pressure(psia)	25
Density	8.37

Additional Data

Specific Gravity	1.00
Total Dissolved Solids(Mg/L)	6965
Total Hardness(CaCO3 Eq Mg/	529

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

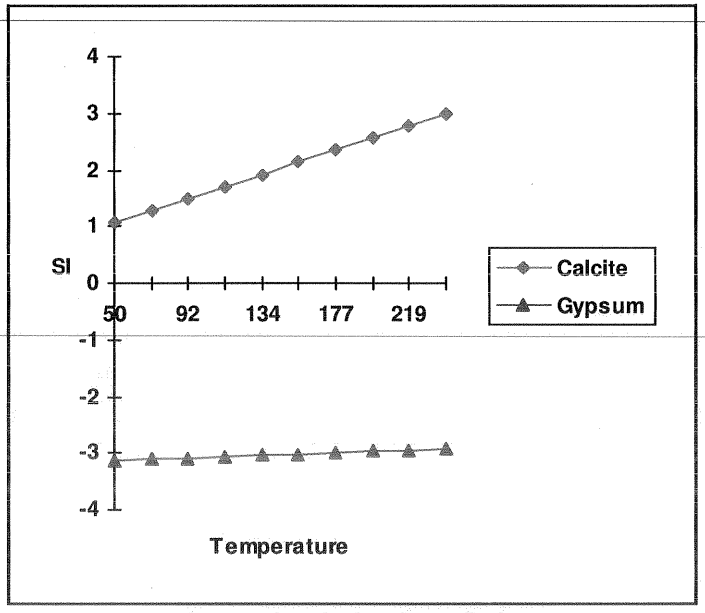
Calculation Method	Value
Known pH	8.00

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	1.93	110.30
Gypsum (Calcium Sulfate)	-3.04	
Hemihydrate (Calcium Sulfate)	-2.90	
Anhydrite (Calcium Sulfate)	-2.98	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

	50	71	92	113	134	156	177	198	219	240
Calcite	1.08	1.29	1.51	1.72	1.93	2.14	2.35	2.57	2.78	3.00
Gypsum	-3.13	-3.10	-3.08	-3.06	-3.04	-3.02	-2.99	-2.97	-2.95	-2.93

Lab Tech.: Linda Podjke

Water Analysis Report

12/8/2011

Address:

Customer: Citation Oil & Gas
Attention: Herschel Kennedy
CC: Bob Rogers

Lease: Sindt
Formation:
Salesman: Randy Tipton

Target Name: Sindt 10
Sample Point: Sindt 10

Sample Date: 11/15/2011 **Test Date:** 11/30/2011

Water Analysis(mg/L)

Calcium	132
Magnesium	29
Barium	
Strontium	
Sodium(calc.)	2706
Bicarbonate Alkalinity	2294
Sulfate	10
Chloride	3151
Resistivity	0.7690

Appended Data(mg/L)

CO2	176
H2S	4
Iron	1
Oxygen	
Manganese	

Physical Properties

Ionic Strength(calc.	0.13
pH(calc.)	
Temperature(°F)	125
Pressure(psia)	25
Density	8.38

Additional Data

Specific Gravity	1.01
Total Dissolved Solids(Mg/L)	8323
Total Hardness(CaCO3 Eq Mg/	449

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

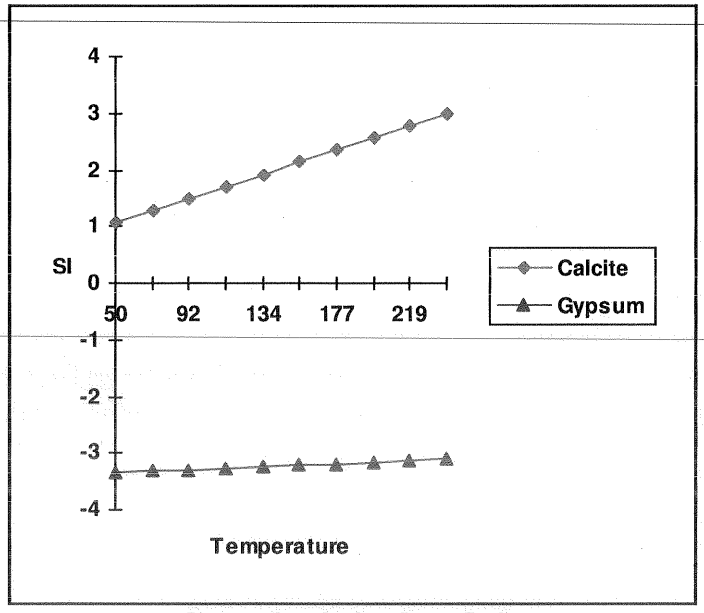
Calculation Method	Value
Known pH	8.00

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	1.83	113.40
Gypsum (Calcium Sulfate)	-3.25	
Hemihydrate (Calcium Sulfate)	-3.11	
Anhydrite (Calcium Sulfate)	-3.26	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

	50	71	92	113	134	156	177	198	219	240
Calcite	1.08	1.29	1.50	1.71	1.93	2.14	2.35	2.56	2.78	2.99
Gypsum	-3.33	-3.31	-3.29	-3.26	-3.24	-3.21	-3.19	-3.16	-3.14	-3.11

Lab Tech.: Linda Pelijka

Water Analysis Report

12/8/2011

Address:

Customer: Citation Oil & Gas
Attention: Herschel Kennedy
CC: Bob Rogers

Lease: Sindt
Formation:
Salesman: Randy Tipton

Target Name: Sindt 13
Sample Point: Sindt 13

Sample Date: 11/15/2011 **Test Date:** 11/30/2011

Water Analysis(mg/L)

Calcium	96
Magnesium	44
Barium	
Strontium	
Sodium(calc.)	2083
Bicarbonate Alkalinity	2172
Sulfate	8
Chloride	2242
Resistivity	0.9631

Appended Data(mg/L)

CO2	194
H2S	3
Iron	1
Oxygen	
Manganese	

Physical Properties

Ionic Strength(calc.	0.10
pH(calc.)	
Temperature(°F)	130
Pressure(psia)	25
Density	8.37

Additional Data

Specific Gravity	1.00
Total Dissolved Solids(Mg/L)	6646
Total Hardness(CaCO3 Eq Mg/	420

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

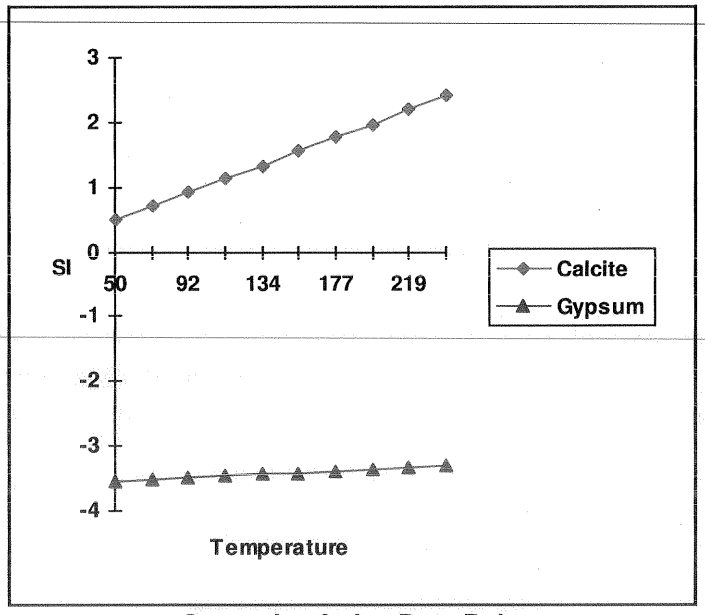
Calculation Method	Value
Known pH	7.50

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	1.30	79.20
Gypsum (Calcium Sulfate)	-3.44	
Hemihydrate (Calcium Sulfate)	-3.29	
Anhydrite (Calcium Sulfate)	-3.41	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

	50	71	92	113	134	156	177	198	219	240
Calcite	0.50	0.71	0.92	1.13	1.34	1.56	1.77	1.98	2.20	2.41
Gypsum	-3.53	-3.51	-3.48	-3.46	-3.43	-3.41	-3.38	-3.36	-3.33	-3.31

Lab Tech.: Linda Pelfrey

Water Analysis Report

12/8/2011

Address:

Customer: Citation Oil & Gas
Attention: Herschel Kennedy
CC: Bob Rogers

Lease: Sindt
Formation:
Salesman: Randy Tipton

Target Name: Sindt 14-H
Sample Point: Sindt 14-H

Sample Date: 11/15/2011 **Test Date:** 11/30/2011

Water Analysis(mg/L)

Calcium	128
Magnesium	56
Barium	
Strontium	
Sodium(calc.)	2577
Bicarbonate Alkalinity	2172
Sulfate	98
Chloride	3030
Resistivity	0.7939

Appended Data(mg/L)

CO2	185
H2S	3
Iron	1
Oxygen	
Manganese	

Physical Properties

Ionic Strength(calc.	0.13
pH(calc.)	
Temperature(°F)	85
Pressure(psia)	25
Density	8.38

Additional Data

Specific Gravity	1.01
Total Dissolved Solids(Mg/L)	8062
Total Hardness(CaCO3 Eq Mg/	550

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

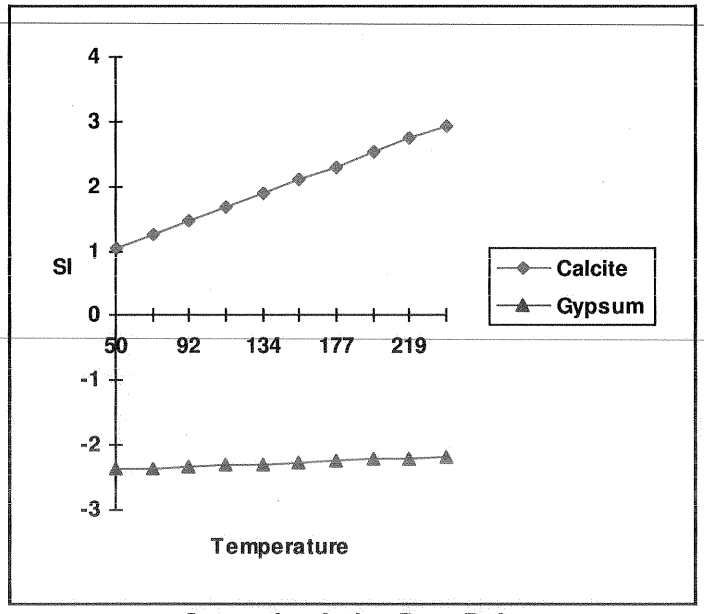
Calculation Method	Value
Known pH	8.00

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	1.39	106.50
Gypsum (Calcium Sulfate)	-2.33	
Hemihydrate (Calcium Sulfate)	-2.15	
Anhydrite (Calcium Sulfate)	-2.62	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

	50	71	92	113	134	156	177	198	219	240
Calcite	1.04	1.25	1.46	1.68	1.89	2.10	2.31	2.53	2.74	2.95
Gypsum	-2.37	-2.35	-2.33	-2.31	-2.29	-2.26	-2.24	-2.22	-2.20	-2.18

Lab Tech.: Linda Pabjka

Water Analysis Report

12/8/2011

Address:

Customer: Citation Oil & Gas
Attention: Herschel Kennedy
CC: Bob Rogers

Lease: Fluharty
Formation:
Salesman: Randy Tipton

Target Name: Fluharty 1

Sample Point: Fluharty 1

Sample Date: 11/15/2011 **Test Date:** 11/30/2011

Water Analysis(mg/L)

Calcium	104
Magnesium	51
Barium	
Strontium	
Sodium(calc.)	2686
Bicarbonate Alkalinity	2264
Sulfate	12
Chloride	3151
Resistivity	0.7741

Appended Data(mg/L)

CO2	220
H2S	5
Iron	1
Oxygen	
Manganese	

Physical Properties

Ionic Strength(calc.	0.13
pH(calc.)	
Temperature(°F)	120
Pressure(psia)	25
Density	8.38

Additional Data

Specific Gravity	1.01
Total Dissolved Solids(Mg/L)	8269
Total Hardness(CaCO3 Eq Mg/	469

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

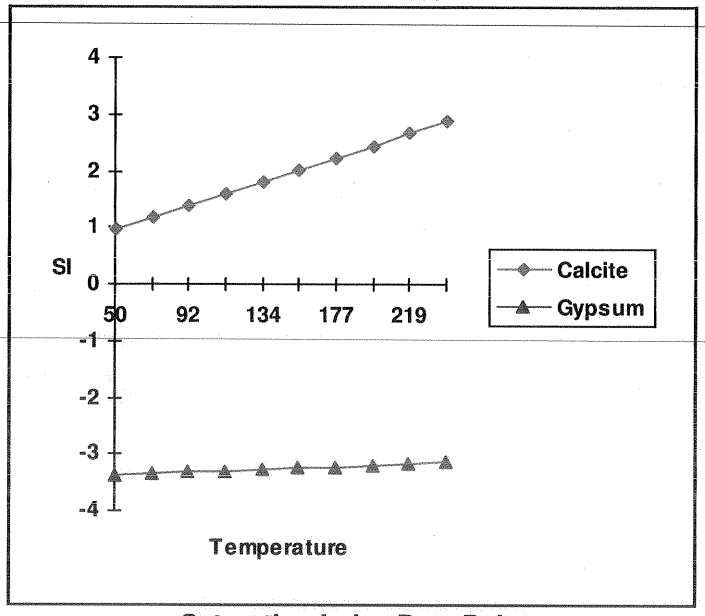
Calculation Method	Value
Known pH	8.00

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	1.67	88.70
Gypsum (Calcium Sulfate)	-3.28	
Hemihydrate (Calcium Sulfate)	-3.14	
Anhydrite (Calcium Sulfate)	-3.32	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

	50	71	92	113	134	156	177	198	219	240
Calcite	0.97	1.18	1.39	1.60	1.82	2.03	2.24	2.45	2.67	2.88
Gypsum	-3.36	-3.34	-3.31	-3.29	-3.27	-3.24	-3.22	-3.19	-3.17	-3.14

Lab Tech.: Linda Pobjke

Citation OIL & GAS CORP.

Convert Well To Salt Water Disposal
Arthur Sindt #5
West Padroni Field
Logan County, Colorado
(September 15, 2011)

OBJECTIVE:

CONVERT THE ARTHUR SINDT #5 SU PRODUCER TO SALT WATER DISPOSAL WELL TO INCREASE FIELD DISPOSAL CAPACITY

EXISTING CONDITION:
WELL IS CURRENTLY SHUT-IN AS UNECONOMICAL TO RETURN TO PRODUCTION

PROPOSED PROCEDURE:

- ✓ **± 4612' 2 $^{7}/_{8}$" injection tbg string.**
- ✓ **5 ½" x 2 $^{7}/_{8}$" injection packer is required for the conversion.**
- ✓ **Recover ESP in well for repair and reconditioning.**

	PERFORATIONS		
	D-Sand	J-Sand	O-Sand
Current	-	-	5096-5108'
Proposed	4712-4736'	4830-4845'	5096-5108', 5110-5130'

1. MIRU Spooler. MIRU SU. TOOH w/ 158 jts 2 $^{7}/_{8}$" tbg & 179 stage TD 980 pump, seal section, 80 Hp motor, and spool ESP cable. Send ESP and cable for reconditioning and repair. Lay down 2 $^{7}/_{8}$" production tbg string.
2. PU & TIH w/ 2 $^{7}/_{8}$" injection tbg to tag PBTD (~5130'). Circulate hole clean. TOOH.
3. PU 2 $^{7}/_{8}$" x 5 ½" pkr & TIH w/ ± 4612' 2 $^{7}/_{8}$" injection tbg and pkr. Set pkr @ ± 4612' load backside and pressure test to 1000# for 10 minutes w/o loss. If test good proceed to next step; otherwise consult w/ engineer for a new procedure. TOOH w/ tbg and pkr. Stand tbg and pkr.

4. MIRU WL. TIH w/ CCL, GR, CBL and CSG inspection tool. Log and inspect from PBTD'-surf. Send logs to Houston Central Region Engineering Office for inspection.
5. RU perforating guns. RIH w/ 4" expendable 36 gram charges 4 jspf 36 gram charges & 90° phasing gun. Correlate w/ Schlumberger Induction-Electric Log (1/29/1961) and perforate D-Sand 4712'-36', J-Sand 4830-45', and O-Sand 5110-PBTD'. RDMO WL.
6. PU & TIH w/ 148 jts 2 $^{7}/_{8}$" injection tbg, 5 ½" Arrowset prk, 2 $^{7}/_{8}$" "F" nipple, 2 $^{7}/_{8}$ 10' tbg sub, and "R" Nipple. Set pkr @ ± 4612' (<100' from top injection perfs). RDMO SU.
7. Load backside and pressure test to state permitted pressure, MIT w/ COGCC representative on site. If MIT is good proceed to next step; otherwise consult w/ engineer for a new procedure.
8. Hook up well to water injection line and begin injection. Monitor rates and pressure for stimulation.

Water Analysis Report

12/8/2011

Address:

Customer: Citation Oil & Gas
Attention: Herschel Kennedy
CC: Bob Rogers

Lease: Sindt
Formation:
Salesman: Randy Tipton

Target Name: Snidt 4
Sample Point: Snidt 4

Sample Date: 11/15/2011 **Test Date:** 11/30/2011

Water Analysis(mg/L)

Calcium	92
Magnesium	49
Barium	
Strontium	
Sodium(calc.)	2463
Bicarbonate Alkalinity	1952
Sulfate	1
Chloride	2969
Resistivity	0.8504

Appended Data(mg/L)

CO2	246
H2S	4
Iron	18
Oxygen	
Manganese	

Physical Properties

Ionic Strength(calc.	0.12
pH(calc.)	
Temperature(°F)	125
Pressure(psia)	25
Density	8.37

Additional Data

Specific Gravity	1.01
Total Dissolved Solids(Mg/L)	7544
Total Hardness(CaCO3 Eq Mg/	431

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

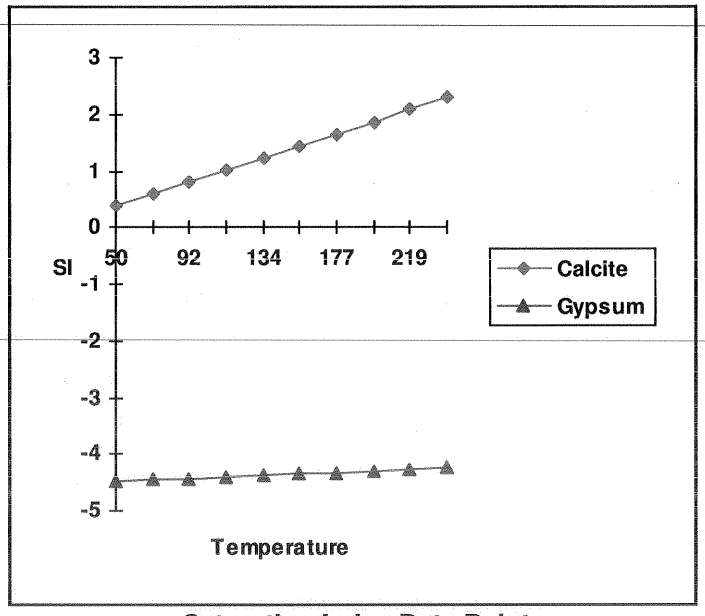
Calculation Method	Value
Known pH	7.50

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	1.13	73.70
Gypsum (Calcium Sulfate)	-4.39	
Hemihydrate (Calcium Sulfate)	-4.25	
Anhydrite (Calcium Sulfate)	-4.40	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

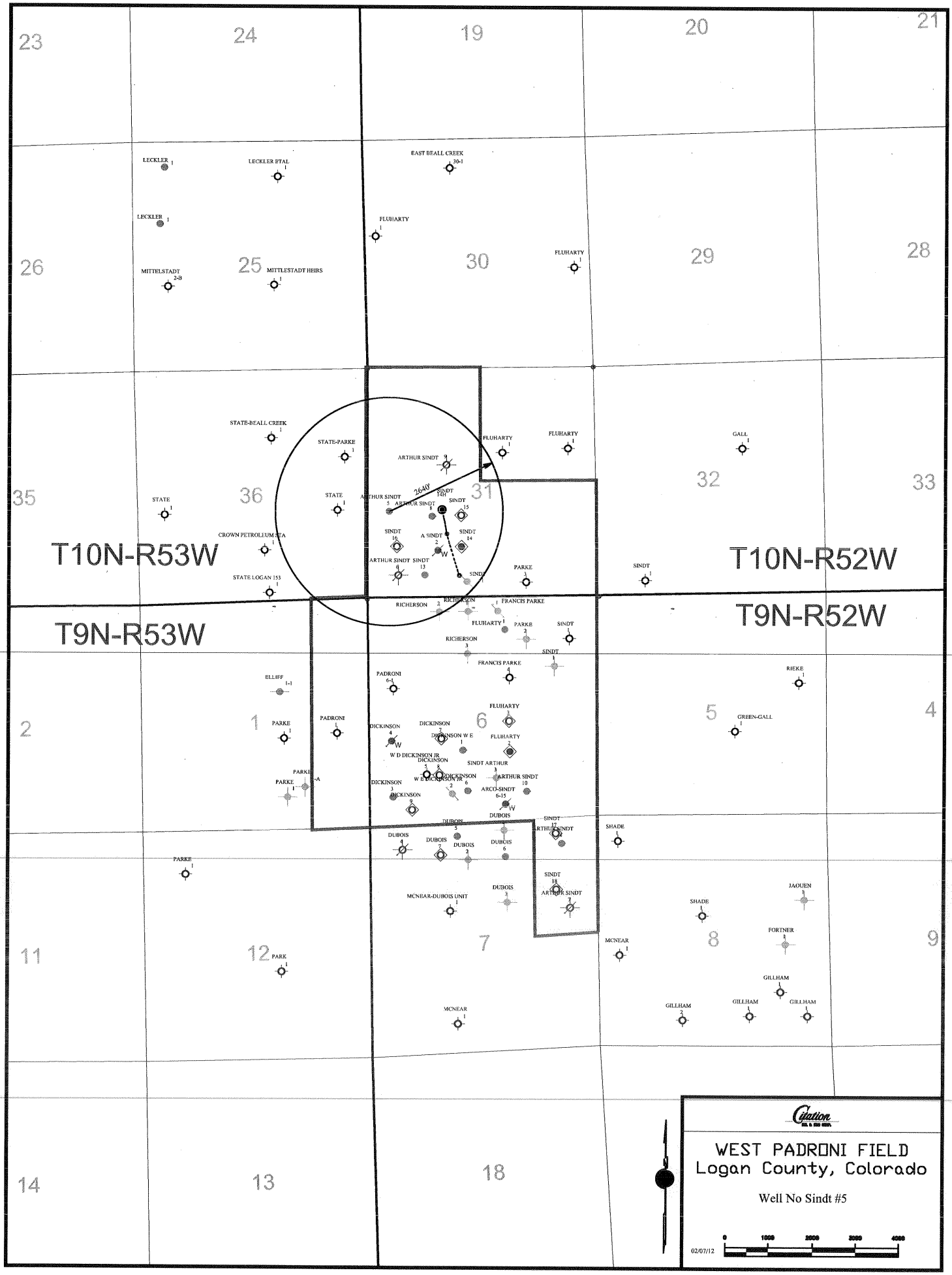
	50	71	92	113	134	156	177	198	219	240
Calcite	0.38	0.59	0.80	1.01	1.22	1.44	1.65	1.86	2.08	2.29
Gypsum	-4.48	-4.45	-4.43	-4.40	-4.38	-4.35	-4.33	-4.30	-4.28	-4.25

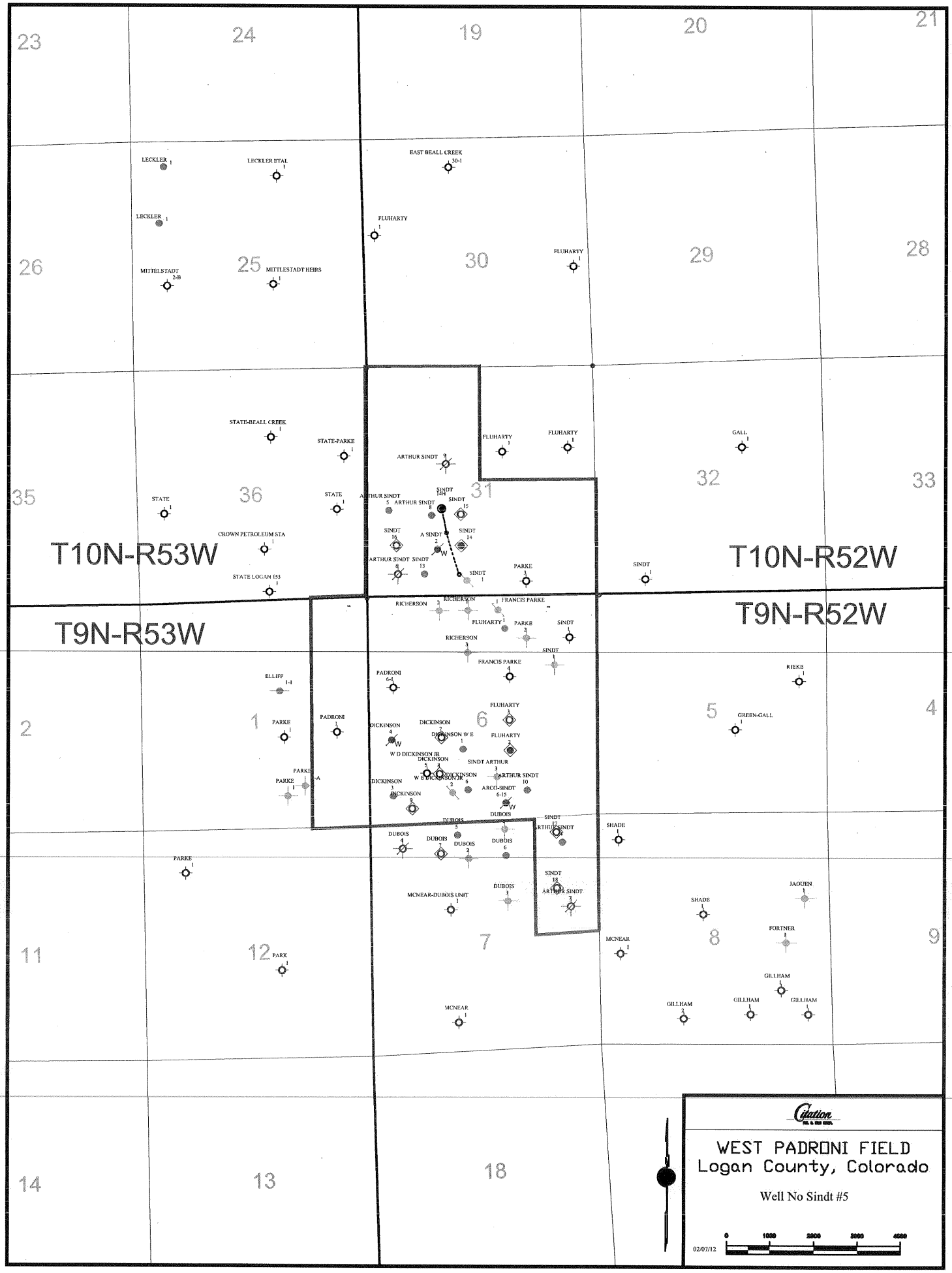
Lab Tech.: Linda Pedjka

CITATION OIL & GAS CORP.
ARTHUR SINDT 5
SW 31-10N-52W
Logan County, Colarado

The water from the following wells will be injected into the Sindt #5.

	QRT/QRT	SEC.	TWNSP.	RANGE	API #
Arthur Sindt #4	NE/NE	7	9N	52W	05-075-06603
Arthur Sindt #8	NESW	31	10N	52W	05-075-06675
Arthur Sindt #10	SW/SE	6	9N	52W	05-075-08596
Arthur Sindt #13	SE/SW	31	10N	52W	05-075-09340
Arthur Sindt #14H	NE/SW	31	10N	52W	05-075-09370
Dickinson #1	NE/SW	6	9N	52W	05-075-06625
Dickinson #3	SW/SW	6	9N	52W	05-075-06620
Dickinson #6	SE/SW	6	9N	52W	05-075-09342
Fluharty #1	NW/NE	6	9N	52W	05-075-09333


T10N-R53W
T10N-R52W
T9N-R53W
T9N-R52W
2640'
WEST PADRONI FIELD
Logan County, Colorado
Well No Sindt #5
02/07/12



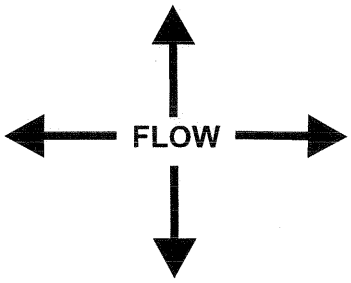
Citation Oil & Gas Corp.

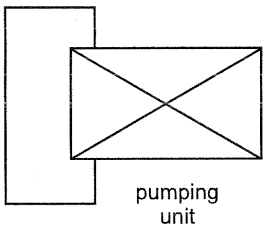
WEST PADRONI FIELD
Logan County, Colorado

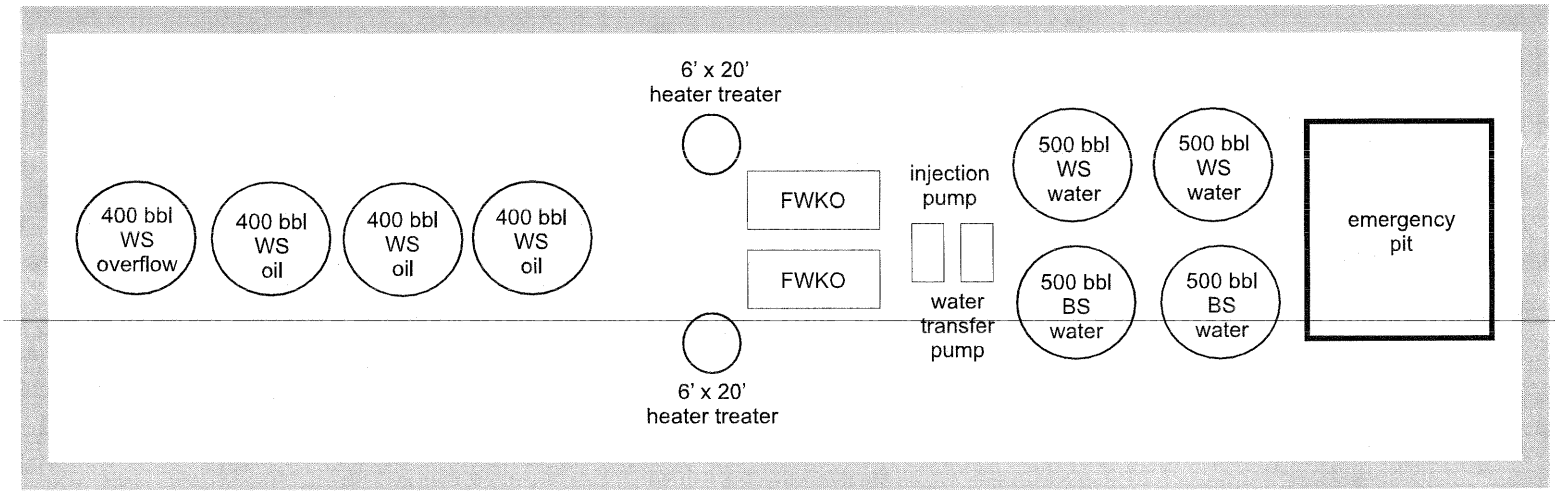
Well No Sindt #5

0 1000 2000 3000 4000

02/07/12







LEGEND
WS - welded steel
BS - bolted steel

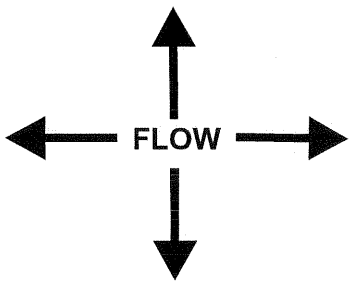
NOT TO SCALE

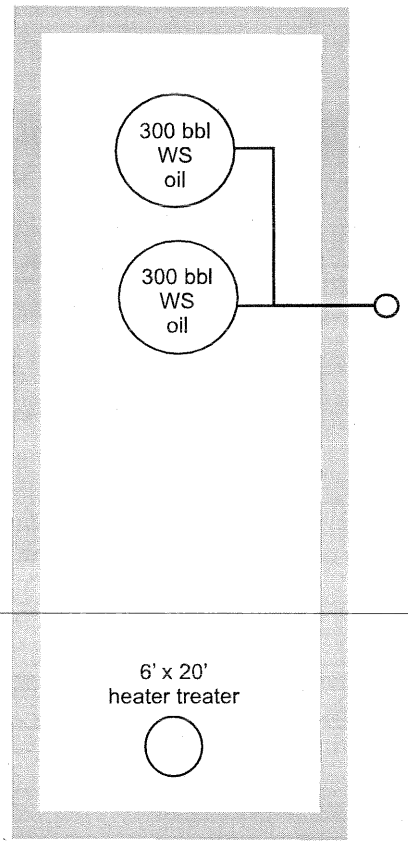
Prepared by:
CEG, Inc.
Houston, Texas

Date:

CITATION OIL & GAS, CORP.
Sindt Dickenson Tank Battery West Padroni Field, Logan County, Colorado
SW SW S - 31, T - 10N, R - 52E – 40° 47.42' N / 103° 13.42' W
Facility ID - 91.16446

SITE
PLAT





LEGEND
WS - welded steel

NOT TO SCALE

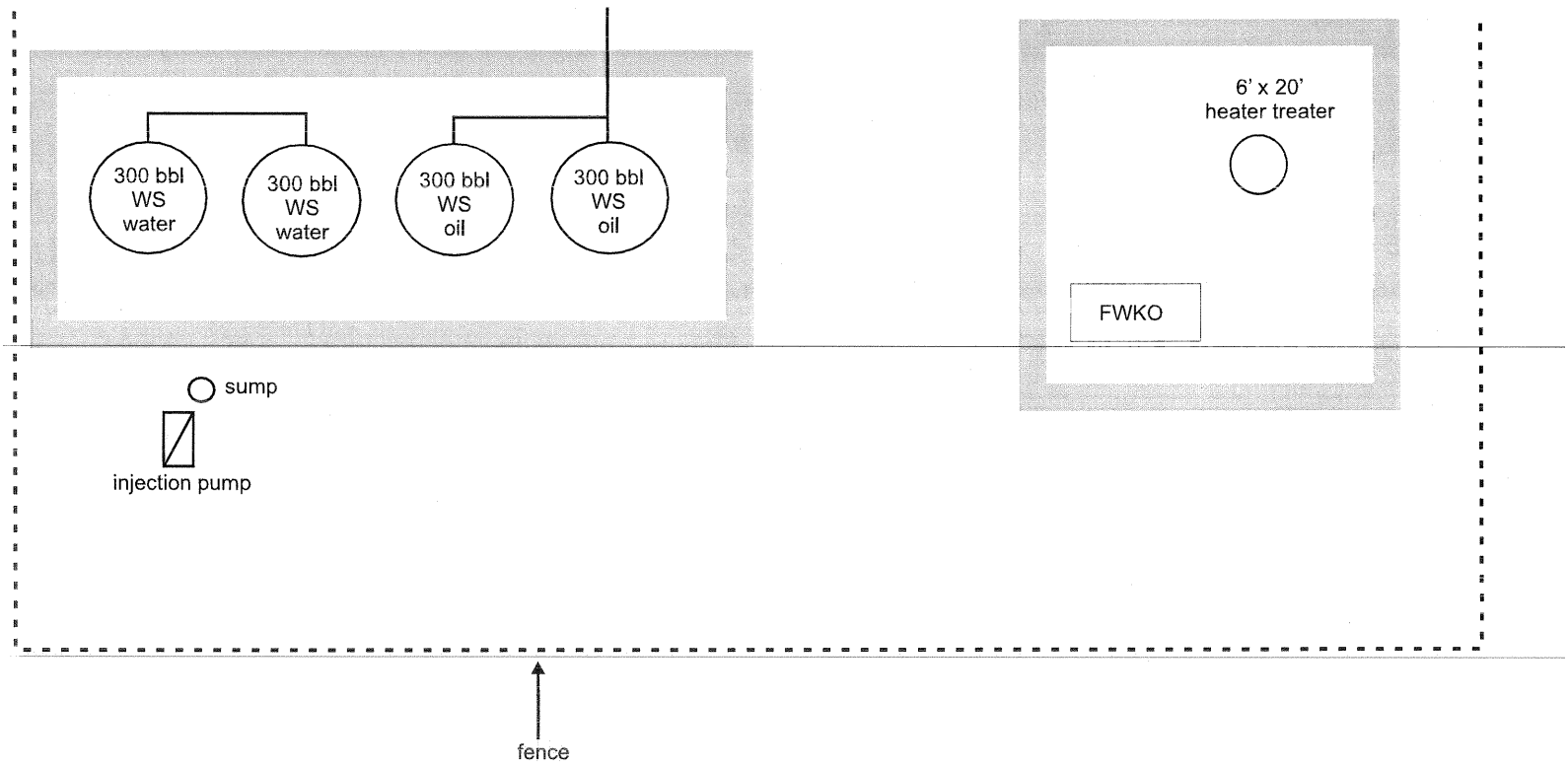
Prepared by:
CEG, Inc.
Houston, Texas

Date:

CITATION OIL & GAS, CORP.
Fluharty Tank Battery West Padroni Field, Logan County, Colorado
SW SW S - 31, T - 10N, R - 52E – 40° 47.405' N / 103° 13.420' W
Facility ID - 90 16445

SITE
PLAT

County Road



LEGEND
WS - welded steel

NOT TO SCALE

Prepared by:
CEG, Inc.
Houston, Texas

Date:

CITATION OIL & GAS, CORP.
Dubois Tank Battery West Padroni Field, Logan County, Colorado
NE NW S - 7, T - 9N, R - 52E – 40° 46.477' N / 103° 13.270' W
Facility ID - 90 16447

SITE PLAT

FORM 33 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

INJECTION WELL PERMIT APPLICATION

Submit a completed Form 33 with or after approval obtained on Form 31 (Underground Injection Permit Application) or you must have a previously approved Injection Well Permit.
1. Operator may not commence injection into this well until this form is approved.
2. Each individual injection well must be approved by this form.

Well Name and Number: Arthur Sindt 5 **API No:** 05-075-06680

UIC Facility No: _____ (as assigned on an approved Form 31)

Project Name: Arthur Sindt 5 **Operator Name:** Citation Oil & Gas Corp.

Field Name and Number: West Padroni 67000 **County:** Logan

QtrQtr: NWSW **Sec:** 31 **Twp:** 10N **Range:** 52W **Meridian:** 6th

Complete the Attachment Checklist

	Oper	OGCC
Current Wellbore Diagram	✓	
Proposed Wellbore Diagram	✓	

CURRENT WELLBORE INFORMATION

	SIZE	DEPTH	NO. SACKS	CEMENT TOP	Cement Top Determined By: CBL	CIRCULATED	CALCULATED
Surface Casing	8 5/8	284	250	Surface	☐	☑	☐
Intermediate Casing (if any)					☐	☐	☐
Production Casing	5 1/2"	5150'	150	Surface	☐	☐	☑

Plug Back Total Depth: 5130 **Tubing Depth:** 4891.60 **Packer Depth:** _____

O - Sand **Formation Gross Perforation Interval:** 5096 to 5108

_____ **Formation Gross Perforation Interval:** _____ to _____

_____ **Formation Open Hole Interval (if any):** _____ to _____

List below all Plugs, Bridge Plugs, Stage Cementing or Squeeze Work performed on this wellbore: (if more space needed, continue on reverse side of this form.)

1.
2.
3.
4.

Describe below any changes to the wellbore which will be made upon conversion. (This includes but not limited to changes of tubing and packer setting depths, any additional squeeze work for aquifer protection or casing leaks, setting of bridge plugs to isolate non-injection formations.)

1. Open additional perforations in D Sand f4712-4736, J Sand 4830-4845 and O Sand 5110-5130 Set packer @4612
2.
3.
4.

Comments:

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Nathania Naftaly

Signed: Nathania Naftaly **Title:** Pemitting Analyst III **Date:** 2/4/2012

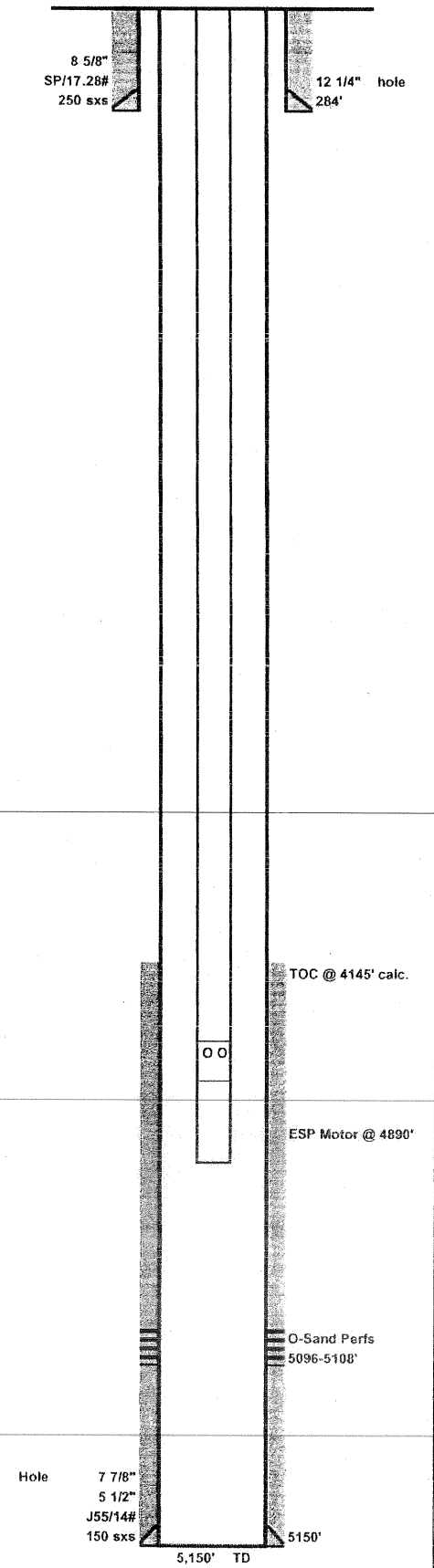
OGCC Approved: _____ **Title:** _____ **Date:** _____

MAX. SURFACE INJECTION PRESSURE: _____ **If Disposal Well, MAX. INJECTION VOL. LIMIT:** _____

CONDITIONS OF APPROVAL, IF ANY:

WELLBORE SCHEMATIC

Current



Lease:				Well No.	**Arthur Sindt #5**
API No.	05-075-06680			Status	SU
Location:	NW/SW Sec. 31, T10N-R52W				
County:	Logan	State:	CO	Field:	Padroni West
TD	5150'	GL	4110'	Spud Date:	1/21/1961
PBTD	5130'	KB	4120'	Comp Date:	1/31/1961
Current Perfs/OH:	5096-5108'	Current Zone:		O-Sand	

Surface Equipment

Unit Make:		Unit Size:	
Unit S/N:		Unit Rotation:	
SPM:	Stroke Length:	Unit Sheave:	
Prime Mover:		Motor Sheave:	
Motor S/N:		Motor RPM:	

Casing Breakdown

	Size	Grade / Wt	Depth	Hole Size	Cement
Surface	8 5/8"	SP/17.28#	284'	12 1/4"	250 sxs
Production	5 1/2"	J55/14#	5150'	7 7/8"	150 sxs
Production					
Production					
Liner					

Tubing Breakdown

Qty	Description	Footage
158	2-7/8" tbg	4835.00'
1	Head TR4 2-7/8"	0.60'
1	Pump TD980 97 Stage	12.00'
1	Pump TD980 82 Stage	10.60'
1	Intake	1.00'
1	Seal TR4	5.30'
1	Seal TR4	5.30'
1	Motor TR4 80 HP, 1310V,39A	20.80'
1	U-Base	1.00'
	TOTAL	4891.60'

Rod Breakdown

Qty	Description	Footage
	TOTAL	0.00'

Comments

D-Sand 4702'
J-Sand 4820'
O-Sand 5094'

PREPARED BY:	JH	UPDATED:	8/29/2011

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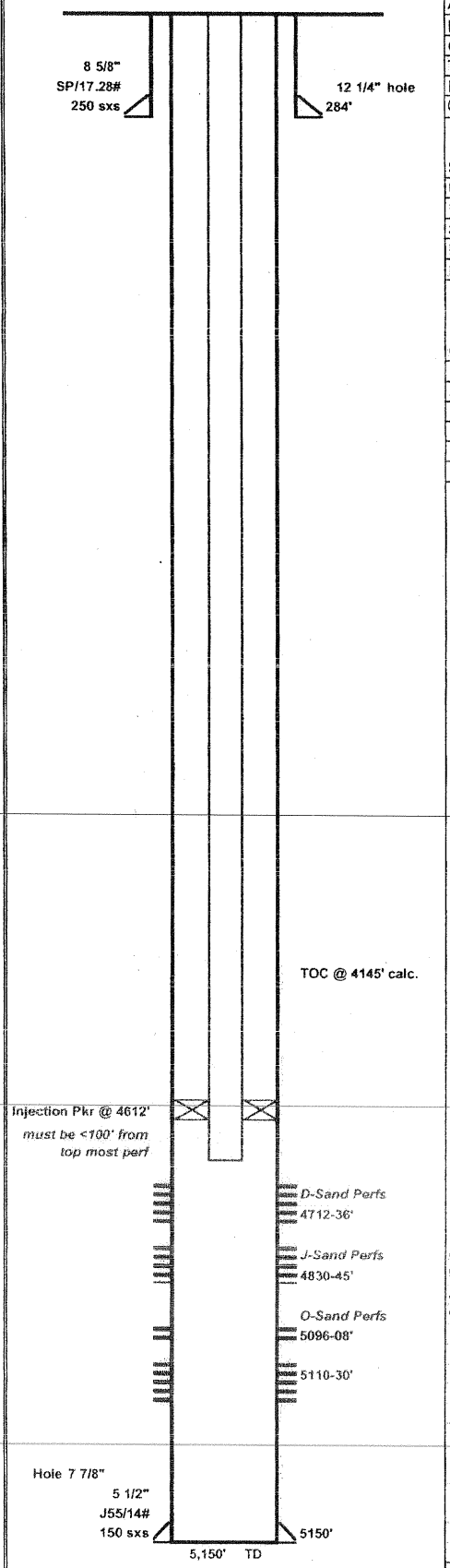
WELLBORE SCHEMATIC

Proposed



Lease:				Well No.	**Arthur Sindt #5**
API No.	05-075-06680			Status	**SWD**
Location:	NW/SW Sec. 31, T10N-R52W				
County:	Logan	State:	CO	Field:	Padroni West
TD	5150'	GL	4110'	Spud Date:	1/21/1961
PBTD	5130'	KB	4120'	Comp Date:	1/31/1961
Current Perfs/OH:	4712-36', 4830-45', 5096-5108', 5110-30'	Current Zone:		D-Sand, J-Sand, O-Sand	

Surface Equipment

Unit Make:		Unit Size:	
Unit S/N:		Unit Rotation:	
SPM:	Stroke Length:	Unit Sheave:	
Prime Mover:		Motor Sheave:	
Motor S/N:		Motor RPM:	

Casing Breakdown

	Size	Grade / Wt	Depth	Hole Size	Cement
Surface	8 5/8"	SP/17.28#	284'	12 1/4"	250 sxs
Production	5 1/2"	J55/14#	5150'	7 7/8"	150 sxs
Production					
Production					
Liner					

Tubing Breakdown

Qty	Description	Footage
158	2-7/8" tbg	4835.00'
	TOTAL	4835.00'

Rod Breakdown

Qty	Description	Footage
	TOTAL	0.00'

Comments
D-Sand 4702'
J-Sand 4820'
O-Sand 5094'

PREPARED BY: JH | UPDATED: 9/14/2011

C:\Documents and Settings\jharden\Desktop\Jay Harden\SECO\Fields\Padroni West\Sindt #5\Sindt #5 WBD

FORM 4
Rev 12/05

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax:(303)894-2109

DE	ET	OE	ES

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry Information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 17180
2. Name of Operator: Citation Oil & Gas Corp.
3. Address: PO Box 690688
City: Houston State: TX Zip: 77269
4. Contact Name: Bridget Lisenbe
Phone: (281) 891-1570
Fax: (281) 580-2168

Complete the Attachment Checklist — OP OGCC

5. API Number 05- 075-06680 OGCC Facility ID Number
6. Well/Facility Name: Arthur Sindt 7. Well/Facility Number 5
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW SW Sec. 31 T10N R52W 6 PM
9. County: Logan 10. Field Name: West Padroni
11. Federal, Indian or State Lease Number:

Attachment Checklist	OP	OGCC
Survey Plat		
Directional Survey		
Surface Eqpmt Diagram		
Technical Info Page	X	
Other Procedure	X	

General Notice

☐ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

	FNL/FSL		FEL/FWL	
Change of **Surface** Footage **from** Exterior Section Lines:				
Change of **Surface** Footage **to** Exterior Section Lines:				
Change of **Bottomhole** Footage **from** Exterior Section Lines:				
Change of **Bottomhole** Footage **to** Exterior Section Lines:				attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer
Latitude
Longitude
Ground Elevation
Distance to nearest property line
Distance to nearest lease line
Distance to nearest well same formation
Distance to nearest bldg, public rd, utility or RR
Is location in a High Density Area (rule 603b)? Yes/No
Surface owner consultation date:

GPS DATA:
Date of Measurement PDOP Reading Instrument Operator's Name

☐ CHANGE SPACING UNIT

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

☐ Remove from surface bond
Signed surface use agreement attached

☐ CHANGE OF OPERATOR (prior to drilling):
Effective Date:
Plugging Bond: ☐ Blanket ☐ Individual

☐ CHANGE WELL NAME NUMBER
From:
To:
Effective Date:

☐ ABANDONED LOCATION:
Was location ever built? ☐ Yes ☐ No
Is site ready for Inspection? ☐ Yes ☐ No
Date Ready for Inspection:

☐ NOTICE OF CONTINUED SHUT IN STATUS
Date well shut in or temporarily abandoned:
Has Production Equipment been removed from site? ☐ Yes ☐ No
MIT required if shut in longer than two years. Date of last MIT

☐ SPUD DATE:

☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK *submit cbl and cement job summaries

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date

☐ RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.
Final reclamation will commence on approximately
☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☐ Notice of Intent
Approximate Start Date:

☐ Report of Work Done
Date Work Completed:

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

☐ Intent to Recomplete (submit form 2)	☐ Request to Vent or Flare	☐ E&P Waste Disposal
☐ Change Drilling Plans	☐ Repair Well	☐ Beneficial Reuse of E&P Waste
☐ Gross Interval Changed?	☐ Rule 502 variance requested	☐ Status Update/Change of Remediation Plans for Spills and Releases
☐ Casing/Cementing Program Change	☒ Other: Convert to INJ	

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Nathania Naftaly Date: 2/4/2012 Email: Nnaftaly@cogc.com
Print Name: Nathania Naftaly Title: Permitting Analyst III

COGCC Approved: Title: Date:
CONDITIONS OF APPROVAL, IF ANY:

FORM 4 Rev 12/05

TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

1. OGCC Operator Number: 17180 API Number: 05-075-06680
2. Name of Operator: Citaion Oil & Gas Corp. OGCC Facility ID # 150281
3. Well/Facility Name: Arthur Sindt Well/Facility Number: 5
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW SE Sec. 25 T14S R42W 6 PM

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

Citaion Oil & Gas Corp. requests permission to convert the refernced well to an injector in the D-Sand, J-Sand and O-Sand per attached procedure.

FORM 103

SINCLAIR OIL & GAS COMPANY

STATE PERMIT

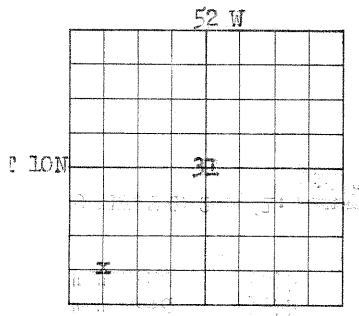
AUTHORIZATION NO. 6

RECORD OF WELL No. 5 ARTHUR SINDT FARM

SEC 31 TWP 10N RANGE 52W COUNTY OR PARISH Logan STATE Colorado ACRES

BLOCK LOCATION OF WELL 1980 Ft. from the South line and 660 Ft. from the West line of Section 31.

SURVEY



(SHOW ALL MEASUREMENTS FROM SURFACE LEVEL)

ELEVATION: SURFACE 4102 RIG FLOOR

LOCATION STAKED BY Cecil J. Osborne DATE 1-20-61

DRILLING CONTRACTOR Smith Brothers Drilling Co. Inc.

KIND OF TOOLS USED, CABLE, FROM TO

ROTARY, FROM 0 TO 5150

DATE DRILLING COMMENCED 1-21-61 COMPLETED 1-29-61

DATE COMPLETED TESTING 2-8-61 FIRST PRODUCTION 2-3-61 Swab

TOTAL DEPTH 5150 PBTD 5130 METHOD OF PRODUCING Pumping

1ST 24 HRS. NATURAL AFTER SHOT OR ACID

24 HR. POTENTIAL AT COMPLETION — OIL 136 WATER 5 CHOKE

ALLOWABLE PRODUCTION, PER DAY — PER CALENDAR DAY —

API GRAVITY OF CRUDE OIL @ 60° F 16.0 GOR Gas too little to measure.

GAS WELL

TUBINGHEAD PRESSURE PSIG KIND OF MUD USED DURING COMPLETION Oil base mud.

VOLUME CU. FT.

DEVIATION TESTS: Maximum: 1-3/4-Deg. @ 3500'

Final: 1-1/2-Deg. @ 3750'

HOLE SIZE BEHIND OIL STRING CSG 7-7/8" SIZE OF HOLE BELOW CSG. None

CORE RECORD: None NUMBER OF CORES DEPTH LAB. NUMBER

WAS ELECTRICAL LOG MADE Yes TOP 283 BOTTOM 5164 SERVICE CO. Schlumberger

Micro-Log Yes 4550 5164 "

WAS RADIO-ACTIVE LOG MADE Yes TOP 4600 BOTTOM 5128 SERVICE CO. McCullough

TEMPERATURE SURVEY — INDICATED TOP OF CEMENT —

SET WHIPSTOCKS AT — SPECIAL CEMENTING JOBS —

PRODUCING FORMATIONS	TOP	BOTTOM	THICK.	PRODUCING FORMATIONS	TOP	BOTTOM	THICK.
1ST "O"	5094	5150	56	5TH			
2ND				6TH			
3RD				7TH			
4TH				8TH			

PERFORATION REPORT:

DATE 2-2-61 NO. HOLES 32 DEPTH 5100 TO 5108 TYPE OF SHOT Super Csg. Jet PRESENT STATUS Open

SHOT REPORT—COMPANY	DATE	QUARTS	SIZE & LENGTH	ANCHOR	SHOT BETWEEN FT.	FT.
1. None					FT.	FT.
2.					FT.	FT.

TREATED — ACID — FRACTURES, ETC.

FROM	TO	TYPE TREATMENT	GALLONS OR BARRELS	SAND POUNDS	LOAD - BBLS.	MAX. & MIN. PRES	NET OIL REC.
FT.	FT.	N					
FT.	FT.	O					
FT.	FT.	N					
FT.	FT.	E					
FT.	FT.						
FT.	FT.						
FT.	FT.						
FT.	FT.						
FT.	FT.						

Copy Tulsa 3-20-61

CASING, TUBING AND SUCKER RODS

CASING IN WELL								AMOUNT PULLED		NOW IN WELL	
SIZE O.D.	NEW S. H.	WEIGHT PER FT.	FEET	SET AT DEPTH	GRADE, KIND, RANGE	THREAD	SACKS CEMENT	DATE	SIZE	FEET	WEIGHT PER FT.	FEET
8-5/8"	N	17.28	282	284	Sp.Wld.SJ		250					
5-1/2"	N	14	5149	5150	J55 SS R2	8R	150-Pzmx					
2-3/8"	SH	4.7	5124	5124	J55 SS R2	8R						

OGCC Form 10

RECEIVED
MAR 17 1961
OIL & GAS
CONSERVATION COMMISSION

OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF COLORADO

PRODUCERS CERTIFICATE OF CLEARANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM A LEASE

(Instructions for filing on reverse side)

Lease ARTHUR SINDT Well No. 5 Field West Padroni

Sec. 31 Twp. 10 N Range 52 W County Logan Pool "O" Sand

Producer or Operator ✓ Sinclair Oil & Gas Company

Address all Correspondence concerning this form to: Sinclair Oil & Gas Company

Street P. O. Box 9 City Fort Morgan State Colorado

The above named producer or operator hereby authorizes Western Crude Marketers, Inc.
(Name of Transporter)

Whose principal place of business is 1700 Broadway (Street) Denver 1, (City) Colorado (State)

And whose field address is P. O. Box 704, Sterling, Colorado

to transport 100 % of the oil or gas produced from the lease designated above until further notice.

Other transporters transporting oil or gas from this lease are:

None ____% ____ ____%

REMARKS: ____

NEW WELL COMPLETION

Date of First Production February 3, 1961 by swab - First Run 2-9-61.

Production gauge on 24 hour basis 2-8-61 136 Bbl. Oil; 4 % Water;

Too small to measure Mcf Gas.

The undersigned certifies that the rules and regulations of the Oil and Gas Conservation Commission of the State of Colorado have been complied with except as noted above and that the transporter(s) is (are) authorized to transport the percentage of oil and/or gas produced from the above described lease and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Colorado Oil and Gas Conservation Commission.

Executed this 14th day of March, 19 61.

Approved:

MAR 17 1961
Date

A. J. Jensen
Director

Sinclair Oil & Gas Company
(Producer or Operator)

COPY PRIG.
SIGNED A. B. PARKER / BLW
District Superintendent
(Affiant) (Title)

OGCC Form 5

1-31-61

OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF COLORADO

WELL COMPLETION REPORT

INSTRUCTIONS

Within thirty (30) days after the completion of any well, the owner or operator shall transmit to the Director three (3) copies of this form, for wells drilled on Patented or Federal lands and four (4) copies for wells drilled on State lands.

Upon request, geological information will be kept confidential for six months after the filing thereof.

Field West Padroni — Operator Sinclair Oil & Gas Company

County Logan — Address P. O. Box 9

City Fort Morgan — State Colorado

Lease Name Arthur Sindt — Well No. 5 — Ground Level Elevation 4102 Ft.

Location C- NW - SW (quarter quarter) — Section 31 — Township 10N — Range 52W — Meridian 6th P.M.

1,980 feet from S (N or S) Section line and 660 feet from W (E or W) Section Line

Drilled on: Private Land ☒ Federal Land ☐ State Land ☐

Number of producing wells on this lease including this well: Oil 5 ; Gas -

Well completed as: Dry Hole ☐ Oil Well ☒ Gas Well ☐

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date — Title District Superintendent

The summary on this page is for the condition of the well as above date.

Commenced drilling January 21, 1961 Finished drilling January 31, 1961

CASING RECORD

SIZE	WT. PER FT.	GRADE	DEPTH LANDED	NO. SKS. CMT.	W.O.C.	PRESSURE TEST Time	PRESSURE TEST Psi
8-5/8"	17.28	Sp.Wld.SJ	284	250	12-Hrs.	1-Hr.	600
5-1/2"	14	J55 SS R2	5,150	150	72-hrs.	2-Hrs.	1500

CASING PERFORATIONS

Type of Charge	No. Perforations per ft.	Zone From	Zone To
Super Csg. Jets	4	5100' "O"	5108'

TOTAL DEPTH 5150 PLUG BACK DEPTH 5130

Oil Productive Zone: From 5100 To 5108 Gas Productive Zone: From - To

Electric or other Logs run IE, Micro-Log & Gamma Ray-Neutron Date January 21, 1961

Was well cored? No Has well sign been properly posted? Yes

RECORD OF SHOOTING AND/OR CHEMICAL TREATMENT

DATE	SHELL, EXPLOSIVE OR CHEMICAL USED	QUANTITY	ZONE From	ZONE To	FORMATION	REMARKS
	None				-	
					-	
					-	

Results of shooting and/or chemical treatment:

DATA ON TEST

Test Commenced 7 A.M. or XXXX 2-7 1961 Test Completed 7 A.M. or XXXX 2-8 1961

For Flowing Well:

- Flowing Press. on Csg. lbs./sq.in.
- Flowing Press. on Tbg. lbs./sq.in.
- Size Tbg. in. No. feet run
- Size Choke in.
- Shut-in Pressure

For Pumping Well:

- Length of stroke used 64 inches.
- Number of strokes per minute 14
- Diam. of working barrel 1-3/4 inches
- Size Tbg. 2-3/8 in. No. feet run 5124
- Depth of Pump 5110 feet.

If flowing well, did this well flow for the entire duration of this test without the use of swab or other artificial flow device?

TEST RESULTS: Bbls. oil per day 136 API Gravity 16.0

Gas Vol. * Mcf/Day; Gas-Oil Ratio - Cf/Bbl. of oil

B.S. & W. 4 %; Gas Gravity - (Corr. to 15.025 psi & 60°F)

SEE REVERSE SIDE

* Too little to measure.

WRJ-25-73

THIS FORM MUST BE SUBMITTED PRIOR TO THE EXPIRATION OF THE PERMIT. TYPE OR PRINT IN BLACK INK. COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

COLORADO DIVISION OF WATER RESOURCES

300 Columbine Bldg., 1845 Sherman St.
Denver, Colorado 80203

RECEIVED
MAY 28 '74
WATER RESOURCES
STATE ENGINEER

FOR OFFICE USE ONLY
Div. 1 Cty. 38

XX STATEMENT OF BENEFICIAL USE OF GROUND WATER
____ AMENDMENT OF EXISTING RECORD

PERMIT NUMBER 74139

STATE OF COLORADO
COUNTY OF Logan } SS.

LOCATION OF WELL

THE AFFIANT(S) Inez M. & Arthur E Sindt
whose mailing address is R. R. 2
City Sterling, Colorado 80751 (STATE) (ZIP)

County Logan
SW ¼ of the SW ¼, Section 31
Twp. 10 N (N OR S), Rng. 52 W (E OR W), 6 P.M.

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon; the well is located as described above, at distances of 1288 feet from the South (NORTH OR SOUTH) section line and 1240 feet from the West (EAST OR WEST) section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the ____ day of May, 19 74; the maximum sustained pumping rate of the well is 15 gallons per minute, the pumping rate claimed hereby is 15 gallons per minute; the total depth of the well is 310 feet; the average annual amount of water to be diverted is 2 acre-feet; for which claim is hereby made for Livestock purpose(s); the legal description of the land on which the water from this well is used is SW¼, SW¼, Sec 31, 10 N, 52W, 6 PM, Logan County, Colorado which totals 440 acres and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

Signature(s) Inez M. Sindt Arthur E Sindt

Subscribed and sworn to before me on this 23 day of May, 19 74

My Commission expires: My Commission expires June 27, 1974
(SEAL)

Elsie E Stewart
NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

FOR OFFICE USE ONLY

Court Case No. ____

Sec. ____ ____ ¼, ____ ¼, ____ ¼,

Well Use 2 ____ ____ ____

Dist. 64 Basin ____ Man. Dis. ____,

Prior. ____ Mo. ____ Day ____ Yr. ____

DATE ____ STATE ENGINEER ____ BY ____

Well drilled by Stewart Drilling Co Lic. No. 66

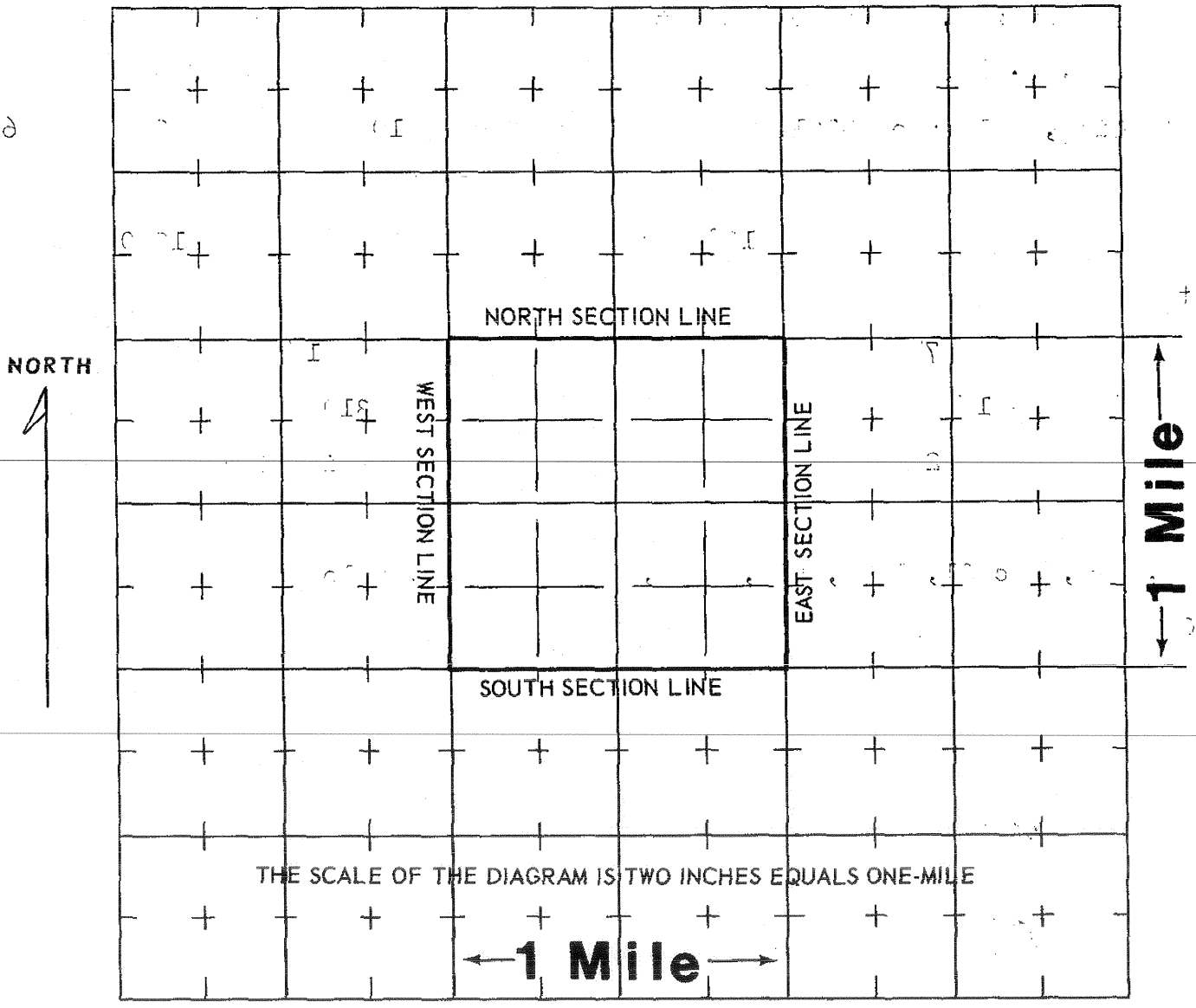
Pump installed by Stewart Drilling Co Lic. No. 66

Meter Serial No. _____ ☐ Flow Meter ☐ Electric Meter ☐ Fuel Meter

Owner of land on which water is being used _____

THE LOCATION OF THE WELL MUST BE SHOWN AND THE AREA ON WHICH THE WATER IS USED MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW.

This diagram represents nine (9) sections. Use the **CENTER SQUARE** (one section) to indicate the location of the well, if possible.



WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep.
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm).
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.
100 gpm pumped continuously for one year produces 160 acre-feet.

WRJ-26-72

THIS FORM MUST BE SUBMITTED WITHIN 60 DAYS OF COMPLETION OF THE WORK DESCRIBED HEREON. TYPE OR PRINT IN BLACK INK.

COLORADO DIVISION OF WATER RESOURCES

300 Columbine Bldg., 1845 Sherman St.
Denver, Colorado 80203

WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER 74139

RECEIVED
MAY 23 '74
WATER RESOURCES DIV. DENVER

WELL OWNER Inez M. & Arthur E. Sindt — SW ¼ of the SW ¼ of Sec. 31,

ADDRESS R. R. 2 Sterling, Colorado 80751 T. 10 N, R. 52 W, 6 P.M.

DATE COMPLETED May, 1974

WELL LOG

From	To	Type and Color of Material	Water Loc.
0	16	Gravel	
16	63	Shale	
63	290	Blue shale	XX
290	310	Shale sand	

TOTAL DEPTH 310

Use additional pages necessary to complete log.

HOLE DIAMETER

6 3/4 in. from 0 to 310 ft.

_____ in. from _____ to _____ ft.

_____ in. from _____ to _____ ft.

DRILLING METHOD Rotary

CASING RECORD:

Plain Casing

Size 5 & kind Plastic from 0 to 170 ft.

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

Perforated Casing

Size 5 & kind Plastic from 170 to 310 ft.

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

GROUTING RECORD

Material Cement

Intervals ~~the first 10 ft.~~

Placement Method Mixed and poured.

GRAVEL PACK: Size ~~None~~

Interval _____

TEST DATA

Date Tested May, 1974

Static Water Level Prior to Test 86 ft.

Type of Test Pump Bailer

Length of Test 2 hours

Sustained Yield (Metered) ~~15 GPM~~

Final Pumping Water Level ~~250~~

PUMP INSTALLATION REPORT

Pump Make Berkeley

Type Submseribile

Powered by Electric HP ½

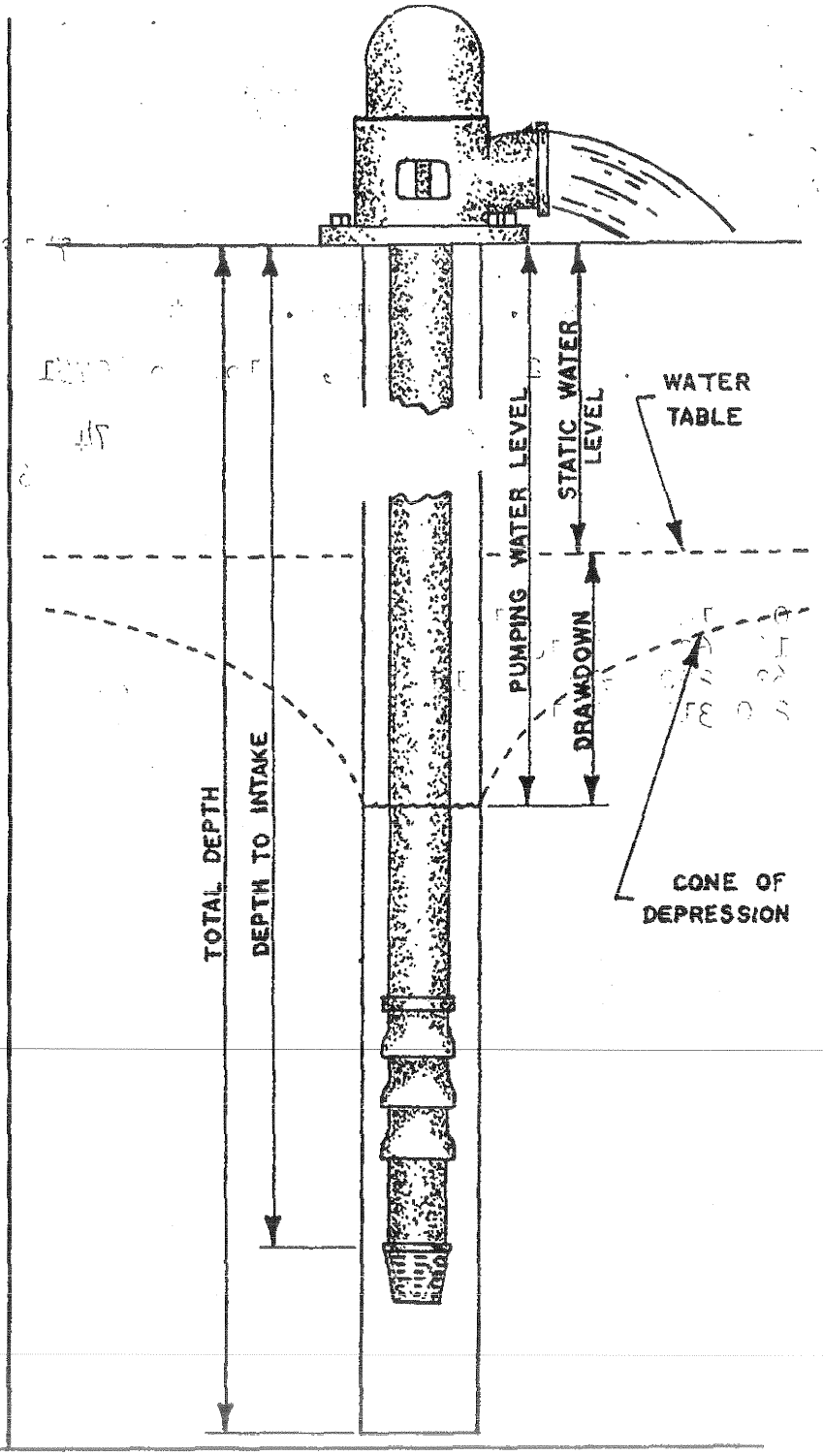
Pump Serial No. 7306271

Motor Serial No. _____

Date Installed May 3, 1974

Pump Intake Depth 258

Remarks _____



WELL TEST DATA WITH PERMANENT PUMP

Date Tested May 3, 1974

Static Water Level Prior to Test 86

Length of Test 2 Hours

Sustained yield (Metered) _____ GPM

Pumping Water Level 250

Remarks _____

CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature Dennis Stewart License No. 66

State of Colorado, County of Logan SS

Subscribed and sworn to before me this 22 day of May, 19 74.

My Commission expires: My Commission expires June 27, 1974, 19 ____.

Notary Public Elsie E Stewart

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed.

WRJ-5-73

COLORADO DIVISION OF WATER RESOURCES

300 Columbine Bldg., 1845 Sherman St., Denver, Colorado 80203

RECEIVED APR 08 '74 WATER RESOURCES STATE ENGINEER COLO.

PERMIT APPLICATION FORM

Application must be complete where applicable. Type or print in BLACK INK. No overstrikes or erasures unless initialed. Proper fee must be submitted with the application.

FOR: (XX) A PERMIT TO USE GROUND WATER
(XX) A PERMIT TO CONSTRUCT A WELL
(XX) A PERMIT TO INSTALL A PUMP

( ) REPLACEMENT FOR NO. _____

( ) OTHER _____

36

(1) APPLICANT - mailing address

NAME Inez M. Sindt & Arthur E. Sindt

STREET R. R. 2

CITY Sterling (State) Colorado (Zip) 80751

TELEPHONE NO. 368 2085

(2) LOCATION OF PROPOSED WELL

County Logan

SW ¼ of the SW ¼, Section 31

Twp. 10 N, Rng. 52 W, 6 P.M.

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) 15

Average annual amount of ground water to be appropriated (acre-feet): 2

Number of acres to be irrigated: None

Proposed total depth (feet): 100 ft

Aquifer ground water is to be obtained from:

Shale

Owner's well designation Stock

GROUND WATER TO BE USED FOR:

( ) HOUSEHOLD USE ONLY - no irrigation (0)
( ) DOMESTIC (1)
(XX) LIVESTOCK (2)
( ) COMMERCIAL (4)
( ) INDUSTRIAL (5)
( ) IRRIGATION (6)
( ) MUNICIPAL (8)
( ) OTHER (9) _____

(4) DRILLER

Name Stewart Drilling Co.

Street R. R. 1

City Sterling (State) Colorado (Zip) 80751

Telephone No. 522 1454 Lic. No. 66

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 51251 / _____

Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

Approved per (3) (b) (ii). CRS148-21-45: this well to be the only well on a tract of more than 35 acres designated as that 40 acres in SW-SW-31-10N-52W-6th

APPLICATION APPROVED

I.D. 1 W.D. 64 COUNTY 38

PERMIT NUMBER 74139

DATE ISSUED MAY 3 1974

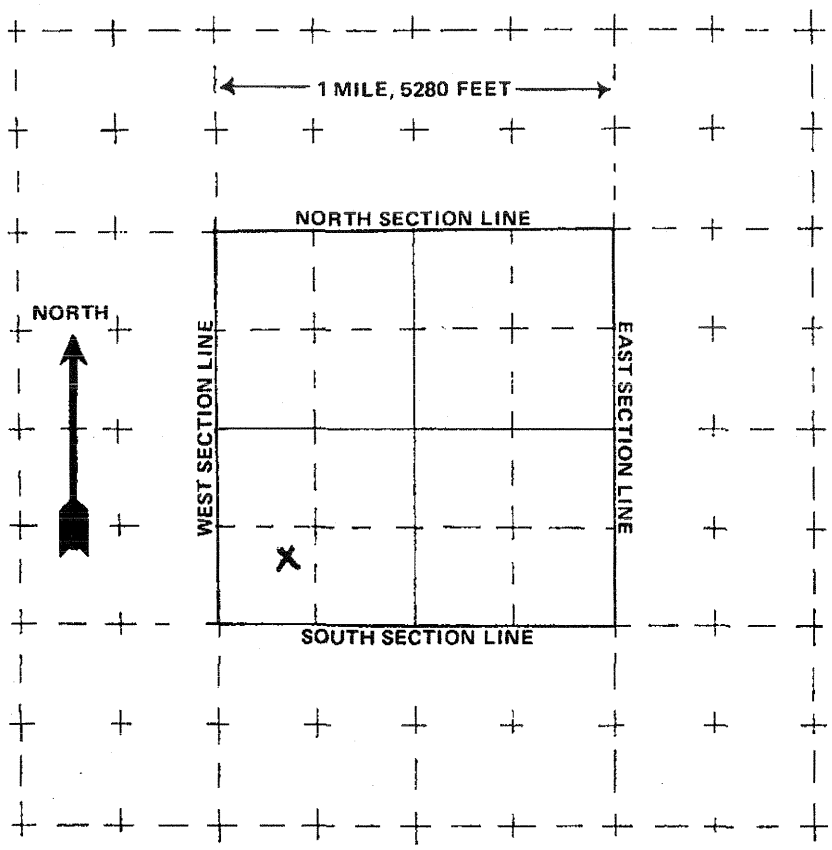
EXPIRATION DATE MAY 3 1976

H. W. Erker

DEPUTY (STATE ENGINEER)

BY R. R. Crawford

(5) THE LOCATION OF THE PROPOSED WELL and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) THE WELL MUST BE LOCATED BELOW by distances from section lines.

1288 ft. from South (north or south) sec. line

1254 ft. from West (east or west) sec. line

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) TRACT ON WHICH WELL WILL BE LOCATED

No. of acres 440 . Will this be the only well on this tract? Yes

(8) PROPOSED CASING PROGRAM

Plain Casing

5 in. from 0 ft. to 80 ft.

_____ in. from _____ ft. to _____ ft.

Perforated casing

5 in. from 80 ft. to 100 ft.

_____ in. from _____ ft. to _____ ft.

(9) FOR REPLACEMENT WELLS give distance and direction from old well and plans for plugging it:

(10) LAND ON WHICH GROUND WATER WILL BE USED:

Owner(s): Inez M. & Arthur E. Sindt No. of acres: 440

Legal description: SW¼, SW¼, Sec 31, T 10N, R 52W, 6 PM, Logan County, Colorado

(11) DETAILED DESCRIPTION of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used.

Livestock well

(12) OTHER WATER RIGHTS used on this land, including wells.

Type of right	Used for (purpose)	Legal Description of land on which used
None		

(13) THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.

Arthur E. Sindt

SIGNATURE OF APPLICANT(S)

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS

SCHLUMBERGER

Induction-Electrical Log

COMPANY SINCLAIR OIL & GAS CO.

WELL SINDT #5

FIELD WEST PADRONI

LOCATION SEC 31-10N-52W CNWSW

COUNTY LOGAN

STATE COLORADO

Other Surveys: NL

Location of Well

Elevation: D.F.:
K.B.: 4112
or G.L.: 4102

FILING No.

FOLD HERE

COMPANY / WELL / FIELD or LOCATION

RUN No.	ONE				
Date	11/29/61				
First Reading	5164				
Last Reading	283				
Feet Measured	4881				
Dsg. Schlum.	283				
Dsg. Driller	282				
Depth Reached	5165				
Bottom Driller	5158				
Depth Datum	GL				
Mud Nat.	GEL-OIL				
Dens. | Visc.	9.6 | 103				
Mud Resist.	1.5 @ 73 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	0.83 @ 132 °F	@ °F	@ °F	@ °F	@ °F
Rmf	1.0 @ 73 °F	.55 @ 132 °F	@ °F	@ °F	@ °F
Rmc	1.1 @ 132 °F	@ °F	@ °F	@ °F	@ °F
" pH	9.5 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	2.8 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Dpcgs.— AM	16"				
MN	34' 6"				
IND.	6FF40				
Dpr. Rig Time	1.4 HR				
Truck No.	1541				
Recorded By	KIMBALL				
Witness	PRICE				

Citation
OIL & GAS CORP.

February 10, 2012

Carol and Stanley Fluharty
18979 County Road 50, Route 2
Sterling, CO 80751

Re: Seven Day Notice
Sindt #5
SW NE Sec. 31 T10N R52W
Logan County, Colorado

Dear Surface Owner(s):

Citation Oil & Gas Corp. has filed with the State of Colorado Oil and Gas Conservation Commission an application for permit to convert Sindt #5 well to a Salt Water Disposal well.

It is our understanding that you are the surface owner of the SW of Section 17, Township 10N, Range 52 West per a records search of the County of Logan.

If you have any questions regarding this application please contact the undersigned at 281-891-1570. It is the responsibility of you as the surface owner to notify any affected tenant of our proposed operations.

Sincerely,

Nathania Naftaly
Permitting Analyst III