

DATE <u>2-16-05</u>	SUSPENSE	ENGINEER <u>Jones</u>	LOGGED IN <u>2-16-05</u>	TYPE <u>SWD</u>	APPROVAL <u>BSM0504749823</u>
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ABOVE THIS LINE FOR DIVISION USE ONLY

2/17/05 3/4/05

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] **[NSP-Non-Standard Proration Unit]** **[SD-Simultaneous Dedication]**
[DHC-Downhole Commingling] **[CTB-Lease Commingling]** **[PLC-Pool/Lease Commingling]**
[PC-Pool Commingling] **[OLS - Off-Lease Storage]** **[OLM-Off-Lease Measurement]**
[WFX-Waterflood Expansion] **[PMX-Pressure Maintenance Expansion]**
[SWD-Salt Water Disposal] **[IPI-Injection Pressure Increase]**
[EOR-Qualified Enhanced Oil Recovery Certification] **[PPR-Positive Production Response]**

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☒ Offset Operators, Leaseholders or Surface Owner
- [C] ☒ Application is One Which Requires Published Legal Notice
- [D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached
- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Paul Lehrman

Print or Type Name

Signature

Sr. Landman

Title

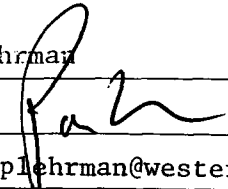
2/14/05

Date

plehrman@westerngas.com
e-mail Address

2005 FEB 16 PM 12 41
30-05-32900

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance XX Disposal Storage
Application qualifies for administrative approval? XX Yes No
- II. OPERATOR: Lance Oil & Gas Company, Inc.
ADDRESS: Box 70, Kirtland, New Mexico 87417
CONTACT PARTY: Paul Lehrman PHONE: 598-5601
Ext. 57
- 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 XX 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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: Paul Lehrman TITLE: Sr. Landman
SIGNATURE:  DATE: 2-14-05
E-MAIL ADDRESS: plehrman@westerngas.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

OPERATOR: Lance Oil & Gas Company, Inc.

WELL NAME & NUMBER: Salty Dog #5

WELL LOCATION: 1030' FNL & 1365' FEL

UNIT LETTER B SECTION 16 TOWNSHIP 29 North RANGE 14 West

FOOTAGE LOCATION

WELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface Casing

See attached

Hole Size: 12 1/4" Casing Size: 8 5/8"

Cemented with: 255 Class B sx. 300 ft³

Top of Cement: Surface Method Determined: Visual

Intermediate Casing

Hole Size: N/A Casing Size:

Cemented with: sx. or ft³

Top of Cement: Method Determined:

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2"

Cemented with: 1057 sx. 1552 ft³

Top of Cement: Surface Method Determined: Visual

Total Depth: 6900'

Injection Interval

6625' feet to 6750'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: Plastic

Type of Packer: Baker Full Bore Tension with On/Off Tool

Packer Setting Depth: 6550'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? XX Yes No
 If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Entrada
3. Name of Field or Pool (if applicable): SWD Entrada Pool code 96436
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Fruitland Coal 636', Pictured Cliffs 656',
Cliff House/Menefee /Pt Lookout 2165' - 3500', Gallup 4530', Dakota 5360'.
No known production below dakota

FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
CONTINUED

Lance Oil & Gas Company, Inc.
Salty Dog #5 SWD Disposal Well
1030' FNL & 1365' FEL
Section 16, T29N, R14W, NMPM
San Juan County, New Mexico

III. Injection Well Data: See also attached sheet.

Salty Dog #5 SWD (State Oil & Gas Lease B-11242)
1030' FSL & 1365' FWL
Section 16, T29N, R14W, NMPM
San Juan County, New Mexico

ESTIMATED FORMATION TOPS:

<u>Formation</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Subsea Elevation</u>
Kirtland Shale	Surface	5,213'	+5,213'
Fruitland Fm	530'	542'	+4,683'
Fruitland Coal	636'	648'	+4,577'
Pictured Cliffs	656'	668'	+4,557'
Lewis Shale	875'	887'	+4,338'
Cliff House	2,165'	2,177'	+3,048'
Menefee	2,615'	2,627'	+2,598'
Point Lookout	3,285'	3,297'	+1,928'
Upper Mancos Shale	3,824'	3,836'	+1,389'
Gallup	4,530'	4,362'	+ 683'
Greenhorn	5,275'	5,287'	+ 62'
Graneros	5,340'	5,352'	- 127'
Dakota	5,360'	5,312'	- 147'
Morrison	5,600'	5,612'	- 387'
Bluff	6,375'	6,387'	-1,162'
Summerville	6,500'	6,512'	-1,287'
Todlito	6,575'	6,587'	-1,362'
Entrada	6,625'	6,637'	-1,412'
Chinle	6,750'	6,762'	-1,537'
Total Depth (TD)*	6,900'	6,912'	-1,687'

*All elevations reflect the ungraded ground level of 5,213'

Formation Tops determined by correlative log from the McWhorter Duncan well, which was a Dakota completion. Location of this well is 1565' FSL & 1820' FWL-Section 10-T29N-R14W and the Salty Dog #3 SWD well, which is located 850' FNL & 770' FEL-Section 28-T29N-R14W, San Juan County, NM.

CASING AND CEMENTING PROGRAM:

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Age</u>	<u>GL Setting Depth</u>
12 1/4"	8 5/8"	24	J-55	New	420'
7 7/8"	5 1/2"	15.5	J-55	New	6900'

Surface casing will be cemented to surface with ≈300 cu.ft. (≈255 sx) Class B containing 1/4#/sk cello flake + 2% CaCl. Yield = 1.18 cu. ft/sk; slurry weight = 15.6 ppg. Volume is based on 100% excess. WOC = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
CONTINUED

Lance Oil & Gas Company, Inc.
Salty Dog #5 SWD Disposal Well
1030' FNL & 1365' FEL
Section 16, T29N, R14W, NMPM
San Juan County, New Mexico

Production casing hole will first be cleaned by circulating at least 150% of hole volume with drilling fluid to surface. Preceed cement with 50 bbl's of Poz slurry with 2% Kcl. Lead with ≈ 600 cu.ft. (≈ 306 sx) Halliburton light cement 65:35 Poz with 1/4#/sk cello flake, 5#/sx Gilsonite, 12.4 ppg, yield of 1.96. Tail in with ≈ 992 cu.ft. (≈ 751 sx) 50:50 Poz with 2% CaCl, 1/4#/sk cello flake, 5#/sx Gilsonite, 13.5 ppg, yield 1.32. Total cement volume is ≈ 1552 .ft. based on 30% excess and circulating to surface. Production casing will be cemented to surface.

A minimum of three centralizers on the Surface Casing. A minimum of 25 centralizers and 5 turbolizers will be ran on the production casing.

TUBING: 2 7/8" Plastic Lined (Internally Plastic Coated) Set @ 6625'.

PACKER:

Baker Full bore with On/Off Tool set @ 6550'.

INJECTION FORMATION INFORMATION:

Entrada

Injection interval, Entrada (6625'-6750') will be perforated.

Approximate perforation intervals will be based on logs per well completion. The Salty Dog #5 will be open hole logged with an SP/Induction and cased hole logged prior to perforations, completion and authorization to inject.

Well is being drilled specifically for injection of fluids.

There are no perforations as this is a new well.

Next highest production is from is the Dakota Formation (Basin Dakota (Oil/Gas) top which is @ approximately 5360'. Next Lower production in non-existent in the San Juan Basin.

IV. Is this an expansion of an existing project: No

V. Lease/Well Map: Attached hereto.

VI. Tabulation attached for wells which penetrate the proposed zone:

None

FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
CONTINUED

Lance Oil & Gas Company, Inc.
Salty Dog #5 SWD Disposal Well
1030' FNL & 1365' FEL
Section 16, T29N, R14W, NMPM
San Juan County, New Mexico

VII. Operating Data:

- 1) Average Daily volume rate is expected to be approximately 2500 bbls/day. Maximum daily rate is expected to be approximately 3500 bbls/day.
- 2) The system is closed.
- 3) The average injection pressure will be 1000 psi. Maximum pressure of 1325 psi will be requested with option for additional pressure increase with approved step rate test.
- 4) Injected water will be produced from the Pictured Cliffs (Harper Hill Fruitland Sand PC) and Fruitland Coal (Basin Fruitland Coal) formations from four State of New Mexico wells (Ropco State 16-1, 16-2, 16-3, 16-4) and two Federal wells (WF Federal 9-4 and 9-3). All of these wells are currently producing. The produced water will be re-injected into the Entrada formation.

An analysis of water from several Lance Oil & Gas Company, Inc. wells is attached hereto. This water is representative of what Lance expects from the proposed wells in the Harper Hill PC and Basin Fruitland Coal formations.

- 5) Injected water is for disposal purposes. Analysis of Entrada water will be obtained. Lance will swab in and take a sample of the Entrada water and test to assure compatibility. Fruitland Coal/PC water is representative of what Lance expects from proposed future wells in the vicinity and may be injected in this well bore.

VIII. Geological Information:

Injection will be in the Entrada formation. Top of the Entrada is @ 6625' with a total thickness of approximately 125'. The Fruitland Coal/Pictured Cliffs is a source of water being @ 636' and below but is not a source of drinking water. These formations will be located behind casing and cemented. There are no known sources of drinking water below the proposed injection formation.

IX. Stimulation Program:

If after completion, logging and well analysis, well may be acidized or fracture stimulated as deemed appropriate.

X. Logs:

This well is in the proposal stage and therefore not drilled or logged. The log from the McWhorter Duncan well, which was a Dakota completion (currently producing), was used for correlative purposes and is attached hereto. Location of this well is 1565' FSL & 1820' FWL-Section 10-T29N-R14W). The log from the Richardson (now Lance Salty Dog #3 well, which was a Entrada SWD completion (currently used for injection), was also used for correlative purposes and is attached hereto. Location of this well is 850' FSL & 770' FEL-Section 28-T30N-R14W).

FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
CONTINUED

Lance Oil & Gas Company, Inc.
Salty Dog #5 SWD Disposal Well
1030' FNL & 1365' FEL
Section 16, T29N, R14W, NMPM
San Juan County, New Mexico

XI. Fresh Water Analysis:

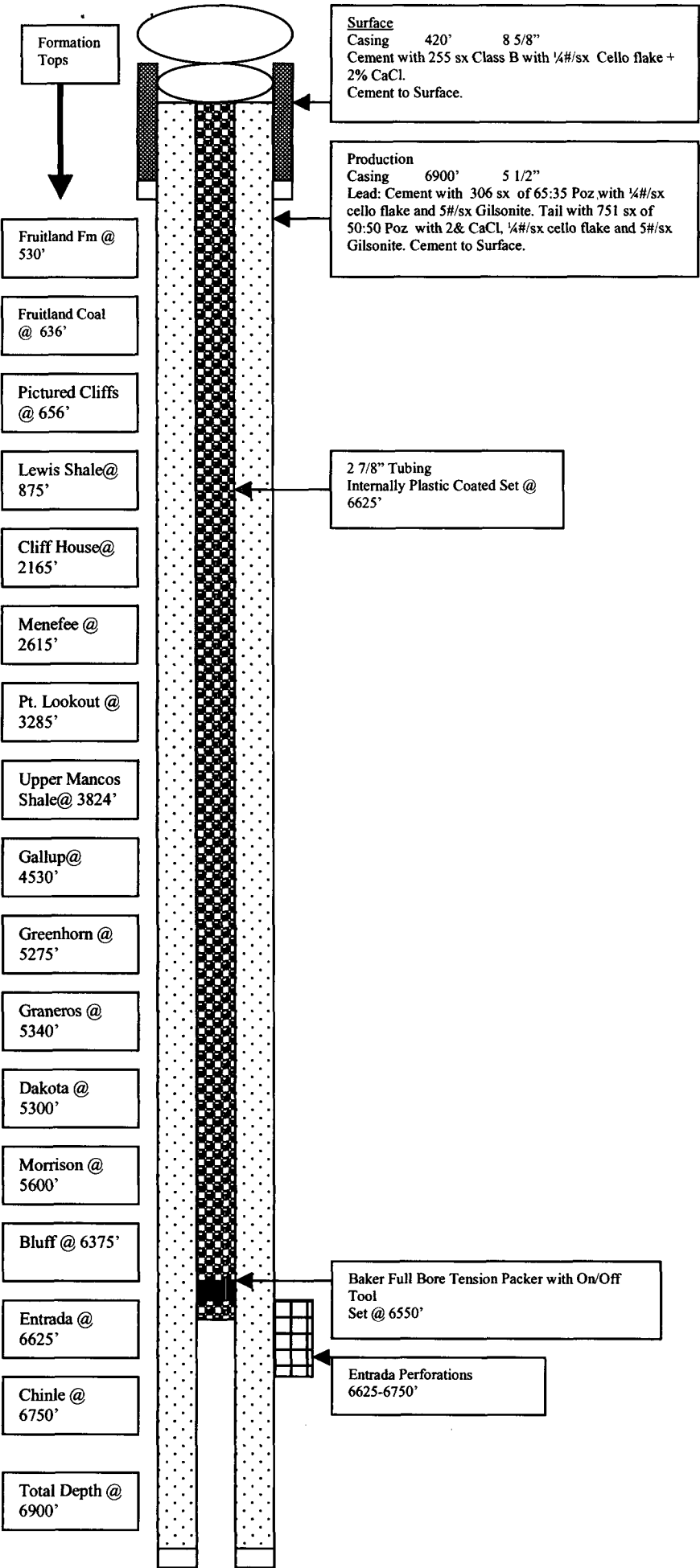
A search of the State Engineer's office in Aztec, New Mexico revealed that there are no fresh water wells within a one mile radius of the proposed disposal well.

XII.

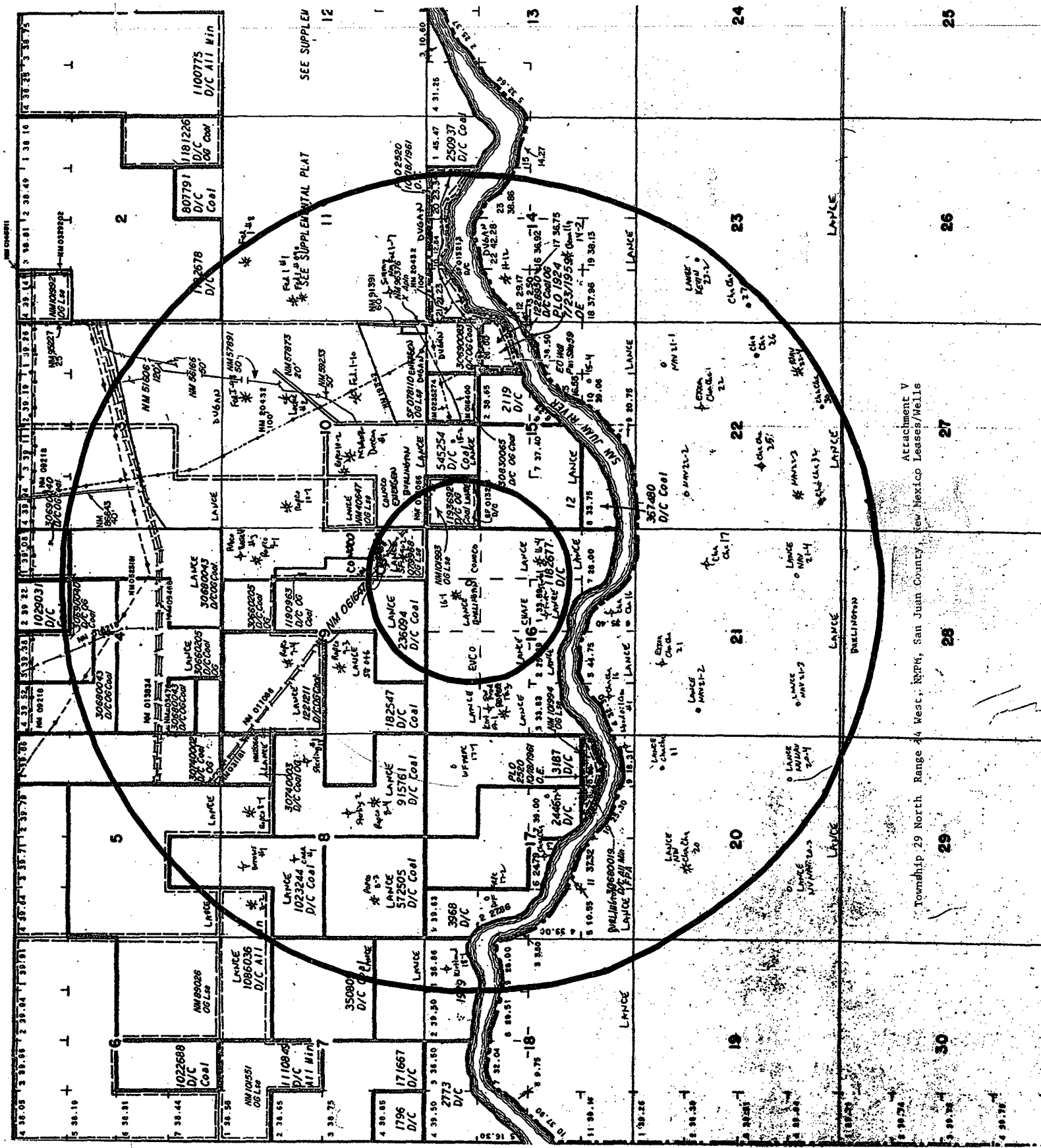
Lance Oil & Gas Company, Inc. has examined the available geologic and engineering data and finds no evidence of open faults or any other hydrologic connection between the proposed disposal well and underground sources of drinking water.

XIV. Proof of Notice:

Attached are copies of Certified Mail Receipts along with letters notifying the surface owner, offset operators and leaseholders and a copy of the proof of publication.



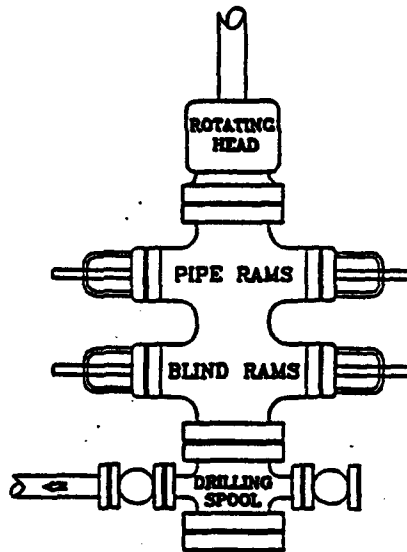
Attachment III Continued
Injection Well Data Sheet
Well bore Diagram
Richardson Operating Company
Salty Dog #5
1030' FNL & 1365' FEL
Section 16, T29N, R14W, NMPM
San Juan County, New Mexico



Attachment V
Township 29 North Range 24 West, NPM, San Juan County, New Mexico Leases/Wells

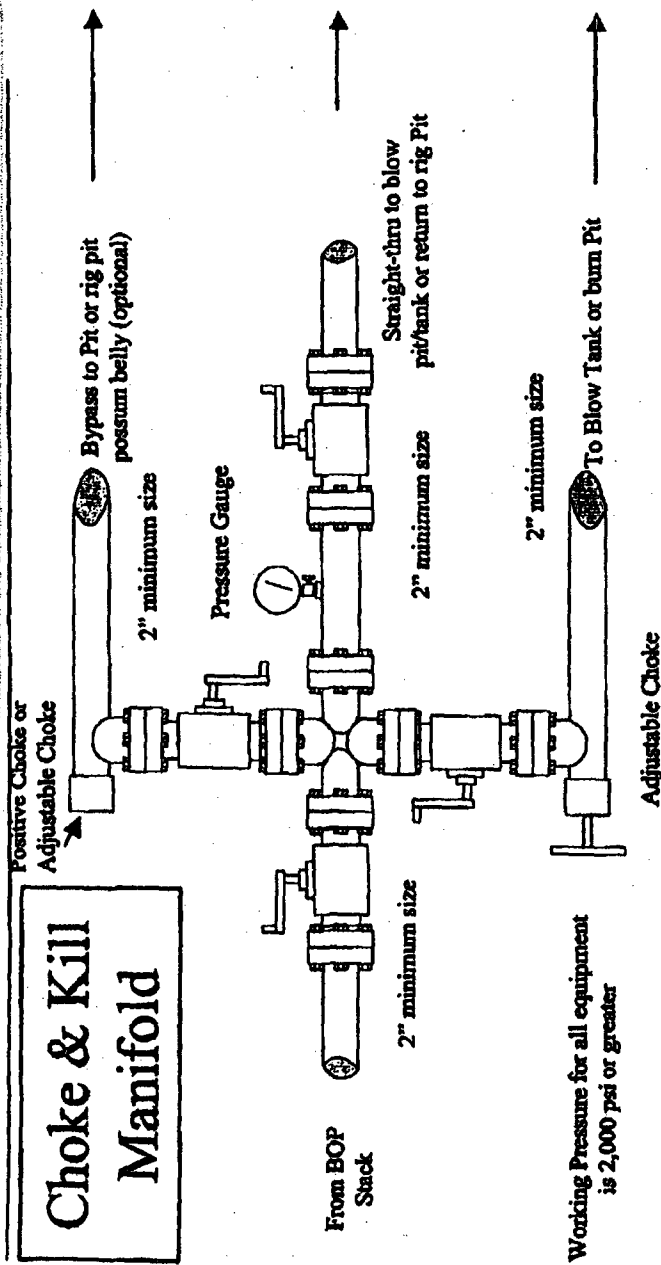
PRESSURE CONTROL

BOP ASSEMBLY



Preventer and Spool to have a
7 1/6" Bore or larger and a 3000 PSI
or higher Pressure Rating

Choke & Kill Manifold



Water Analysis Report

04-Jan-05

Date Sampled : 20-Dec-04

Date Received : 23-Dec-04

Date Reported : 04-Jan-05

Lance Oil & Gas

Field : San Juan Basin

Lease : Ropcos

Farmington NM

Location : Ropco 16-01

Attention : Doug Barone

Sample Point : wellhead

cc1 : Doug Zentz

Salesman : Clay Bingham

cc2 :

Analyst : Karen Hawkins Allen

cc3 :

Comments :

C A T I O N S

Calcium : 960 mg/l
Magnesium : 49 mg/l

Barium : mg/l
Strontium : mg/l
Iron : 32.0 mg/l

Manganese : mg/l
Sodium : 26542 mg/l

pH (field) : 6.50

Temperature : 85 degrees F

Ionic Strength : 1.21

Resistivity : ohm/meters

Ammonia : ppm

A N I O N S

Chloride : 38,260 mg/l

Carbonate : 0 mg/l

Bicarbonate : 854 mg/l

Sulfate : 5,435 mg/l mg/l mg/l

Specific Gravity : 1.030 grams/ml

Total Dissolved Solids : 72,132 ppm

CO2 in Water : 44 mg/l

CO2 in Gas : 0.03 mole %

H2S in Water : 2.0 mg/l

Dissolved Oxygen : ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	-0.01	Calcite PTB :	N/A
Calcite (CaCO3) SI @ 100 F :	0.15	Calcite PTB @ 100 F :	61.3
Calcite (CaCO3) SI @ 120 F :	0.36	Calcite PTB @ 120 F :	138.0
Calcite (CaCO3) SI @ 140 F :	0.58	Calcite PTB @ 140 F :	203.1
Calcite (CaCO3) SI @ 160 F :	0.80	Calcite PTB @ 160 F :	256.7
Calcite (CaCO3) SI @ 180 F :	1.03	Calcite PTB @ 180 F :	302.7
Calcite (CaCO3) SI @ 200 F :	1.27	Calcite PTB @ 200 F :	343.0
Gypsum (CaSO4) SI :	-0.27	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Confidential

Champion Technologies, Inc.

Vernal District Technical Services

Water Analysis Report

04-Jan-05

Date Sampled : 20-Dec-04

Date Received : 23-Dec-04

Date Reported : 04-Jan-05

Lance Oil & Gas

Field : San Juan Basin

Lease : Ropcos

Farmington NM

Location : Ropco 16-02

Attention : Doug Barone

Sample Point : wellhead

cc1 : Doug Zentz

Salesman : Clay Bingham

cc2 :

Analyst : Karen Hawkins Allen

cc3 :

Comments :

C A T I O N S

Calcium : 840 mg/l
Magnesium : 107 mg/l

Barium : mg/l
Strontium : mg/l
Iron : 95.0 mg/l

Manganese : mg/l
Sodium : 39104 mg/l

pH (field) : 8.30

Temperature : 85 degrees F

Ionic Strength : 1.75

Resistivity : ohm/meters

Ammonia : ppm

A N I O N S

Chloride : 59,380 mg/l

Carbonate : 0 mg/l

Bicarbonate : 1,222 mg/l

Sulfate : 2,718 mg/l mg/l mg/l

Specific Gravity : 1.035 grams/ml

Total Dissolved Solids : 103,466 ppm

CO2 in Water : 44 mg/l

CO2 in Gas : 0.03 mole %

H2S in Water : 2.0 mg/l

Dissolved Oxygen : ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	0.23	Calcite PTB :	114.8
Calcite (CaCO3) SI @ 100 F :	0.38	Calcite PTB @ 100 F :	180.8
Calcite (CaCO3) SI @ 120 F :	0.59	Calcite PTB @ 120 F :	258.2
Calcite (CaCO3) SI @ 140 F :	0.81	Calcite PTB @ 140 F :	330.0
Calcite (CaCO3) SI @ 160 F :	1.03	Calcite PTB @ 160 F :	390.2
Calcite (CaCO3) SI @ 180 F :	1.27	Calcite PTB @ 180 F :	443.3
Calcite (CaCO3) SI @ 200 F :	1.50	Calcite PTB @ 200 F :	486.3
Gypsum (CaSO4) SI :	-0.68	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

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Lance Oil & Gas

Field : San Juan Basin

Lease : Ropcos

Farmington

NM

Location : Ropco 16-04

Attention : Doug Barone

Sample Point : wellhead

cc1 : Doug Zentz

Salesman : Clay Bingham

cc2 :

Analyst : Karen Hawkins Allen

cc3 :

Comments :

C A T I O N S

Calcium : 1,120 mg/l
Magnesium : 97 mg/l

Barium : mg/l
Strontium : mg/l
Iron : 124.0 mg/l

Manganese : mg/l
Sodium : 24411 mg/l

pH (field) : 6.50

Temperature : 85 degrees F

Ionic Strength : 1.13

Resistivity : ohm/meters

Ammonia : ppm

A N I O N S

Chloride : 37,640 mg/l

Carbonate : 0 mg/l

Bicarbonate : 793 mg/l

Sulfate : 2,445 mg/l mg/l mg/l

Specific Gravity : 1.050 grams/ml

Total Dissolved Solids : 66,630 ppm

CO2 in Water : 44 mg/l

CO2 in Gas : 0.03 mole %

H2S in Water : 2.0 mg/l

Dissolved Oxygen : ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	0.01	Calcite PTB :	3.6
Calcite (CaCO3) SI @ 100 F :	0.17	Calcite PTB @ 100 F :	67.6
Calcite (CaCO3) SI @ 120 F :	0.38	Calcite PTB @ 120 F :	138.8
Calcite (CaCO3) SI @ 140 F :	0.60	Calcite PTB @ 140 F :	199.3
Calcite (CaCO3) SI @ 160 F :	0.82	Calcite PTB @ 160 F :	249.1
Calcite (CaCO3) SI @ 180 F :	1.05	Calcite PTB @ 180 F :	293.6
Calcite (CaCO3) SI @ 200 F :	1.29	Calcite PTB @ 200 F :	329.1
Gypsum (CaSO4) SI :	-0.52	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Confidential

Champion Technologies, Inc.

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Lance Oil & Gas

Field : San Juan Basin

Lease : Ropcos

Farmington NM

Location : Ropco 09-04

Attention : Doug Barone

Sample Point : wellhead

cc1 : Doug Zentz

Salesman : Clay Bingham

cc2 :

Analyst : Karen Hawkins Allen

cc3 :

Comments :

C A T I O N S

Calcium : 200 mg/l
Magnesium : 122 mg/l

Barium : mg/l
Strontium : mg/l
Iron : 95.0 mg/l

Manganese : mg/l
Sodium : 11221 mg/l

pH (field) : 6.50

Temperature : 85 degrees F

Ionic Strength : 0.51

Resistivity : ohm/meters

Ammonia : ppm

A N I O N S

Chloride : 16,680 mg/l

Carbonate : 0 mg/l

Bicarbonate : 610 mg/l

Sulfate : 1,325 mg/l mg/l mg/l

Specific Gravity : 1.020 grams/ml

Total Dissolved Solids : 30,253 ppm

CO2 in Water : 44 mg/l

CO2 in Gas : 0.03 mole %

H2S in Water : 1.0 mg/l

Dissolved Oxygen : ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	-0.62	Calcite PTB :	N/A
Calcite (CaCO3) SI @ 100 F :	-0.47	Calcite PTB @ 100 F :	N/A
Calcite (CaCO3) SI @ 120 F :	-0.25	Calcite PTB @ 120 F :	N/A
Calcite (CaCO3) SI @ 140 F :	-0.04	Calcite PTB @ 140 F :	N/A
Calcite (CaCO3) SI @ 160 F :	0.19	Calcite PTB @ 160 F :	35.5
Calcite (CaCO3) SI @ 180 F :	0.42	Calcite PTB @ 180 F :	71.0
Calcite (CaCO3) SI @ 200 F :	0.66	Calcite PTB @ 200 F :	99.7
Gypsum (CaSO4) SI :	-1.32	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Confidential

Champion Technologies, Inc.

Vernal District Technical Services

State of New Mexico
Energy, Minerals & Mining Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C - 102

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number 30-045-	Pool Code 96436	Pool Name SWD Entrada
Property Code	Property Name Salty Dog	Well Number 5
OGRID No. 229938	Operator Name LANCE OIL & GAS COMPANY, INC.	Elevation 5213'

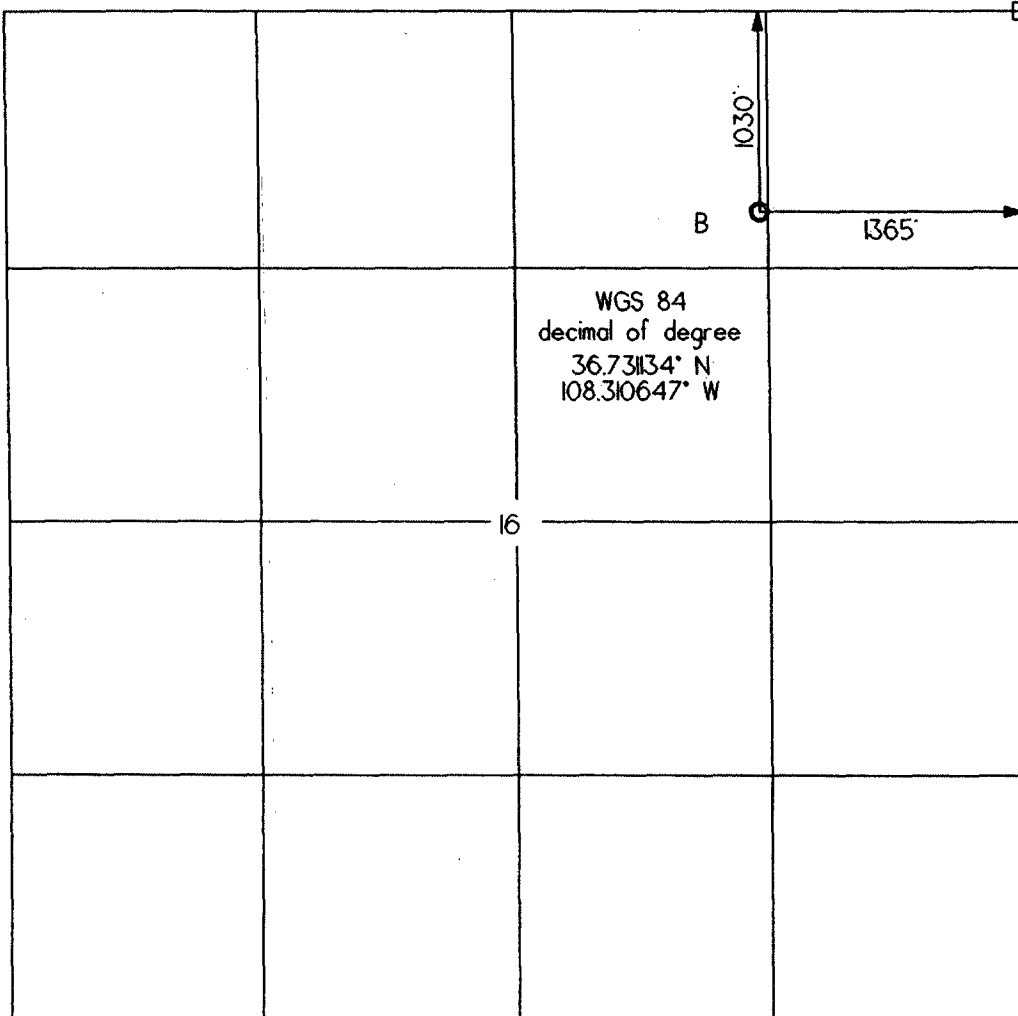
Surface Location

UL or Lot B	Sec. 16	Twp. 29 N.	Rge. 14 W.	Lot Idn.	Feet from > 1030'	North/South NORTH	Feet from > 1365	East/West East	County SAN JUAN
----------------	------------	---------------	---------------	----------	----------------------	----------------------	---------------------	-------------------	--------------------

Bottom Hole Location If Different From Surface

UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from >	North/South	Feet from >	East/West	County
Dedication					Joint ?	Consolidation		Order No.	

NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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

Signature *Paul Lehrman*

Printed Name
Paul Lehrman

Title
Sr. Landman

Date
2-14-05

SURVEYOR CERTIFICATION

I hereby certify that the well location 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 belief.

Date of Survey
11/30/04

Signature and Seal
Professional Surveyor

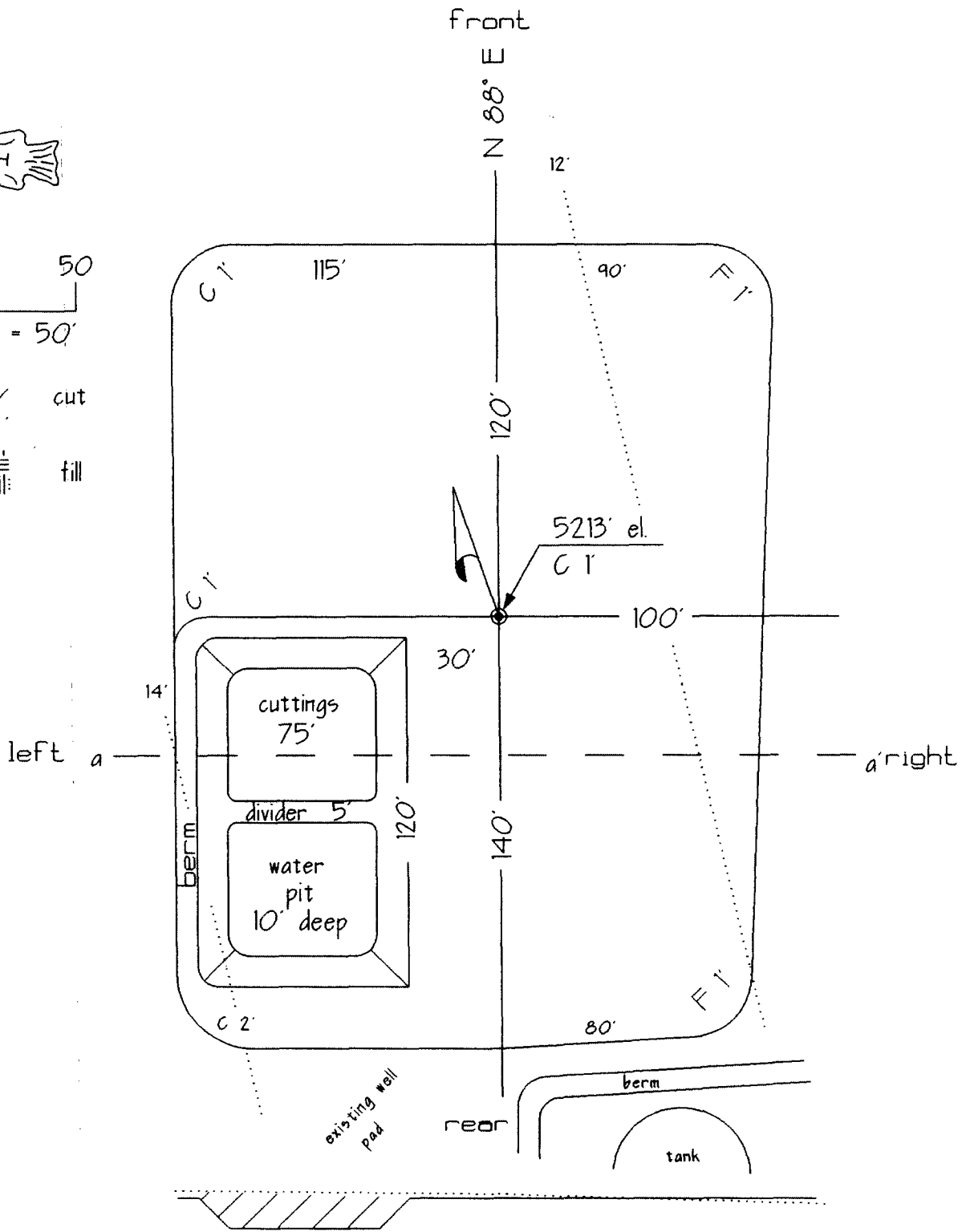
Salty Dog # 5
well pad & section



0' 50'
Scale 1" = 50'

cut

fill



a

Cross section

a'

AFFIDAVIT OF PUBLICATION

Ad No. 51178

STATE OF NEW MEXICO County of San Juan:

CONNIE PRUITT, being duly sworn says:
That she is the CLASSIFIED MANAGER of
THE DAILY TIMES, a daily newspaper of
general circulation published in English at
Farmington, said county and state, and that
the hereto attached Legal Notice was
published in a regular and entire issue of the
said DAILY TIMES, a daily newspaper duly
qualified for the purpose within the meaning of
Chapter 167 of the 1937 Session Laws of the
State of New Mexico for publication and
appeared in the Internet at The Daily Times
web site on the following day(s):

Thursday, February 10, 2005.

And the cost of the publication is \$40.88.

Connie Pruitt

ON 2/11/05 CONNIE PRUITT
appeared before me, whom I know personally
to be the person who signed the above
document.

Wynell Corey
My Commission Expires November 17, 2008.



COPY OF PUBLICATION

918 Legals

Notice of Intent
Drill Salt Water
Disposal well and
Inject Produced Water

Contact Party:
Lance Oil & Gas
Company, Inc.
Post Office Box 70
Kirtland, New Mexico
87417
Attn: Paul Lehman
(505) 598-5601, Ext: 57

Well Name and Legal De-
scription:
Salty Dog #5 SWD
1030' FNL & 1365' FEL
Section 16, Township 29
North, Range 14 West,
NMPM
San Juan County, New
Mexico

Lance Oil & Gas Compa-
ny, Inc. is making appli-
cation with the New
Mexico Oil Conservation
Division for a C-108
(Authorization to Inject).
Intended purpose of the
Application will be to
drill and complete the
Salty Dog #5 as a salt
water disposal well. The
formation name and
depth will be the Entra-
da (6625-6750'). Maxi-
mum injection rate will
be approximately 2500
BWP. Maximum injec-
tion pressure will be ap-
proximately 1325 PSI.
Interested parties must
file their objections or
requests for hearing
with the Oil Conserva-
tion Division, 1220
South St. Francis Drive,
Santa Fe, New Mexico
87505, within 15 days.

Legal No. 51178 pub-
lished in The Daily
Times, Farmington, New
Mexico on Thursday
February 10, 2005.

GEARHART

INDUCTION ELECTRICAL LOG

FILING NO.

COMPANY SOUTHLAND ROYALTY COMPANYWELL MCWHORTER-DUNCAN NO.1FIELD Basin DakotaCOUNTY SAN JUAN STATE NEW MEXICOLOCATION: 1565' FSL x 1820' FWL Other Services20-045-25951

CDL/CNL/GR

SEC 10 TWP 29N RGE 14W

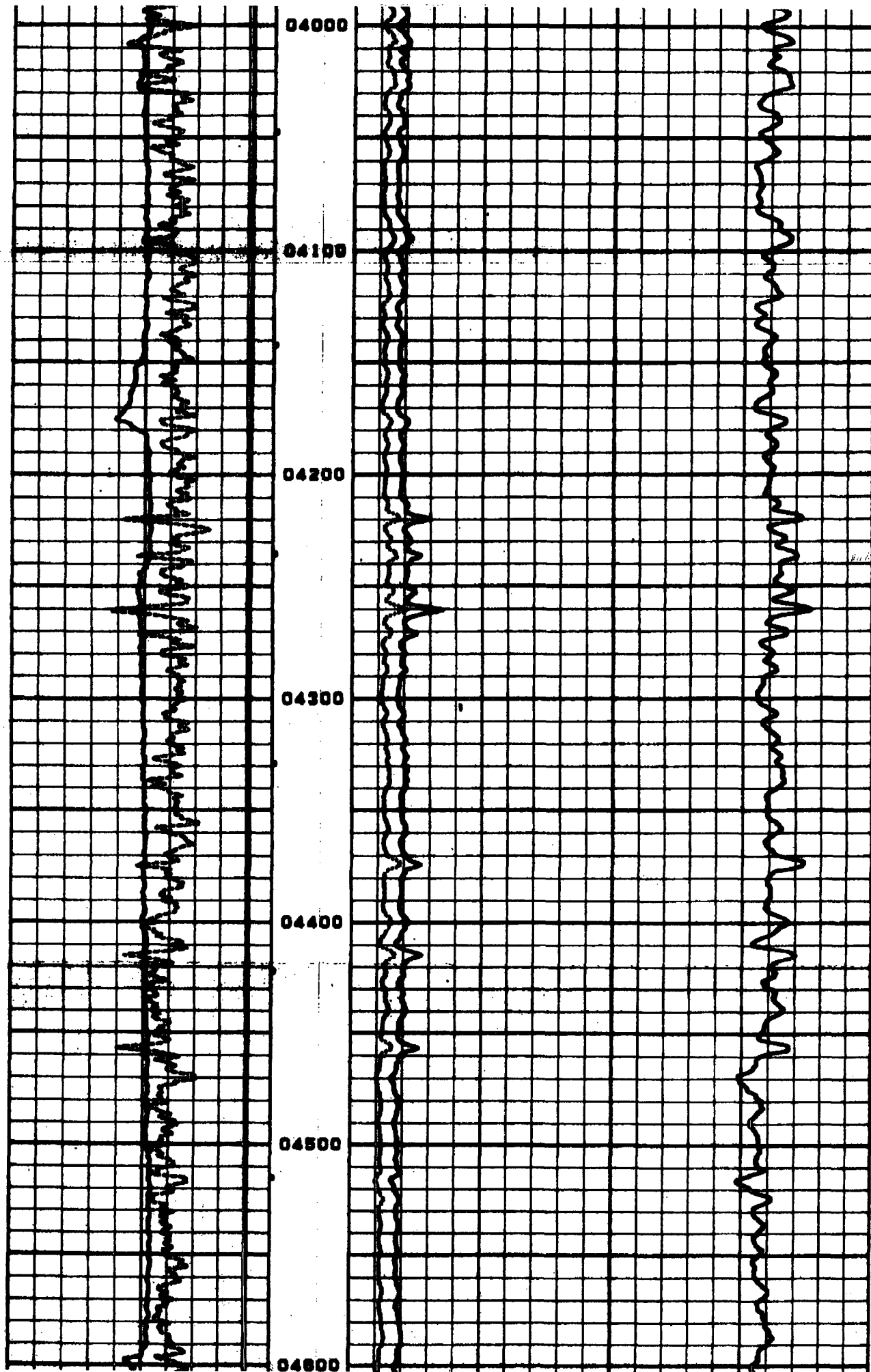
Permanent Datum GROUND LEVEL Elev. 5376 Elevations:
Log Measured from K.B. 12 Ft. Above Permanent Datum KB 5388
Drilling Measured from K.B. DF 5387
GL 5376

Date	5-23-84				
Run No.	ONE				
Depth-Driller	5860				
Depth-Logger	5897				
Bottom Logged Interval	5896				
Top Logged Interval	230				
Casing-Driller	8 5/8 @ 230				
Casing-Logger	230				
Bit Size	7 7/8				
Type Fluid in Hole	GEL				
Density and Viscosity	9.2 65				
pH and Fluid Loss	8 N/A cc			cc	cc
Source of Sample	Flowline				
Rim @ Meas. Temp.	2.9 @ 76 °F			°F	°F
Rimf @ Meas. Temp	2.8 @ 76 °F			°F	°F
Rimc @ Meas. Temp	2.8 @ 79 °F			°F	°F
Source at Rimf and Rimc	M M				
Rim @ BHT	1.5 @ 143°F			°F	°F
End Circulation	10:15				
Logger on Bottom	14:15				
Max. Rec. Temp. Deg. F.	145 °F			°F	°F
Equip. No. and Location	7607 129-062				
Recorded By	Baker-Mease				
Witnessed By	Mr. Lankford				

FOLD HERE

Changes in Mud Type or Additional Samples

Scale Changes



Gallop

04700

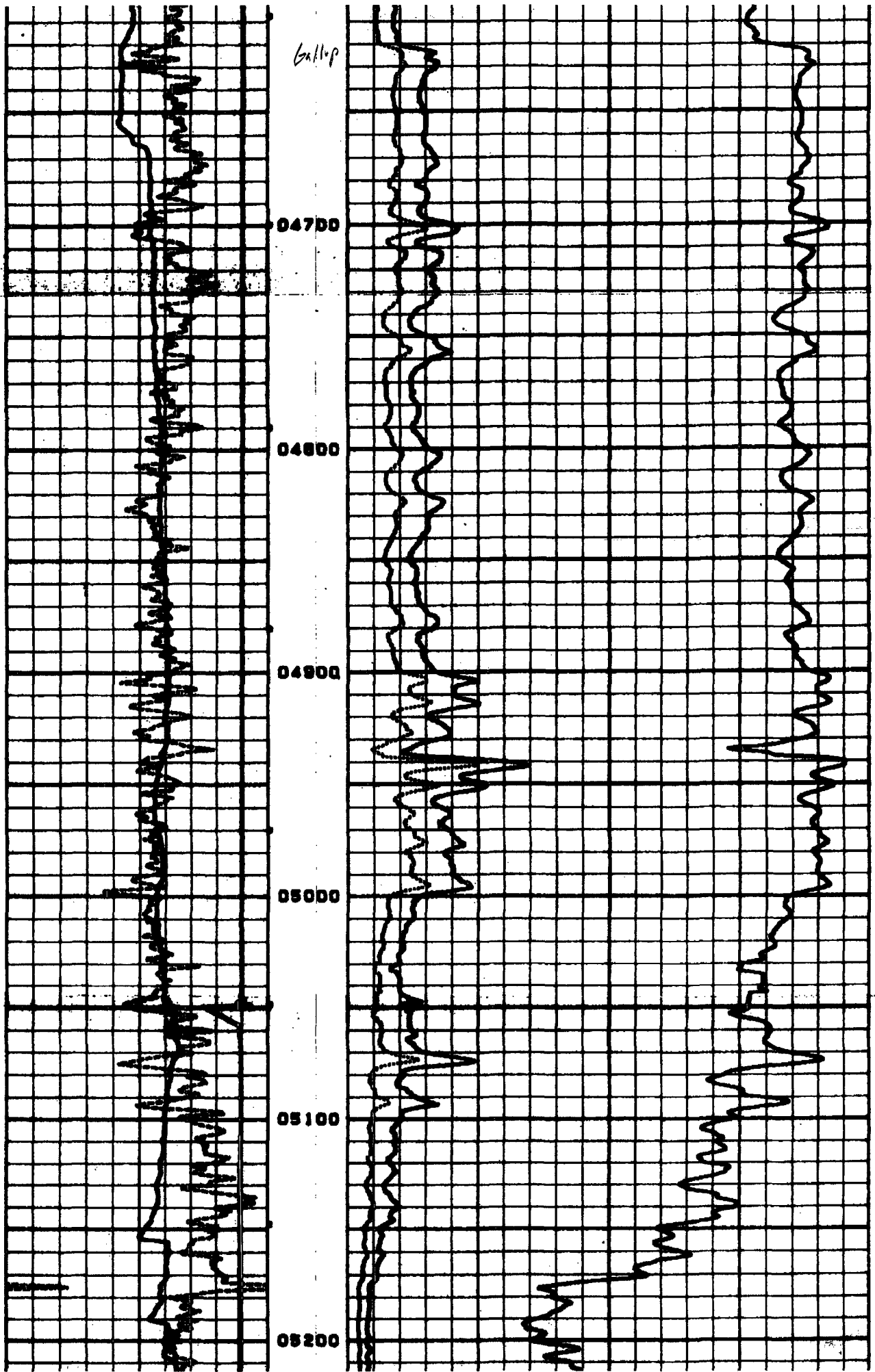
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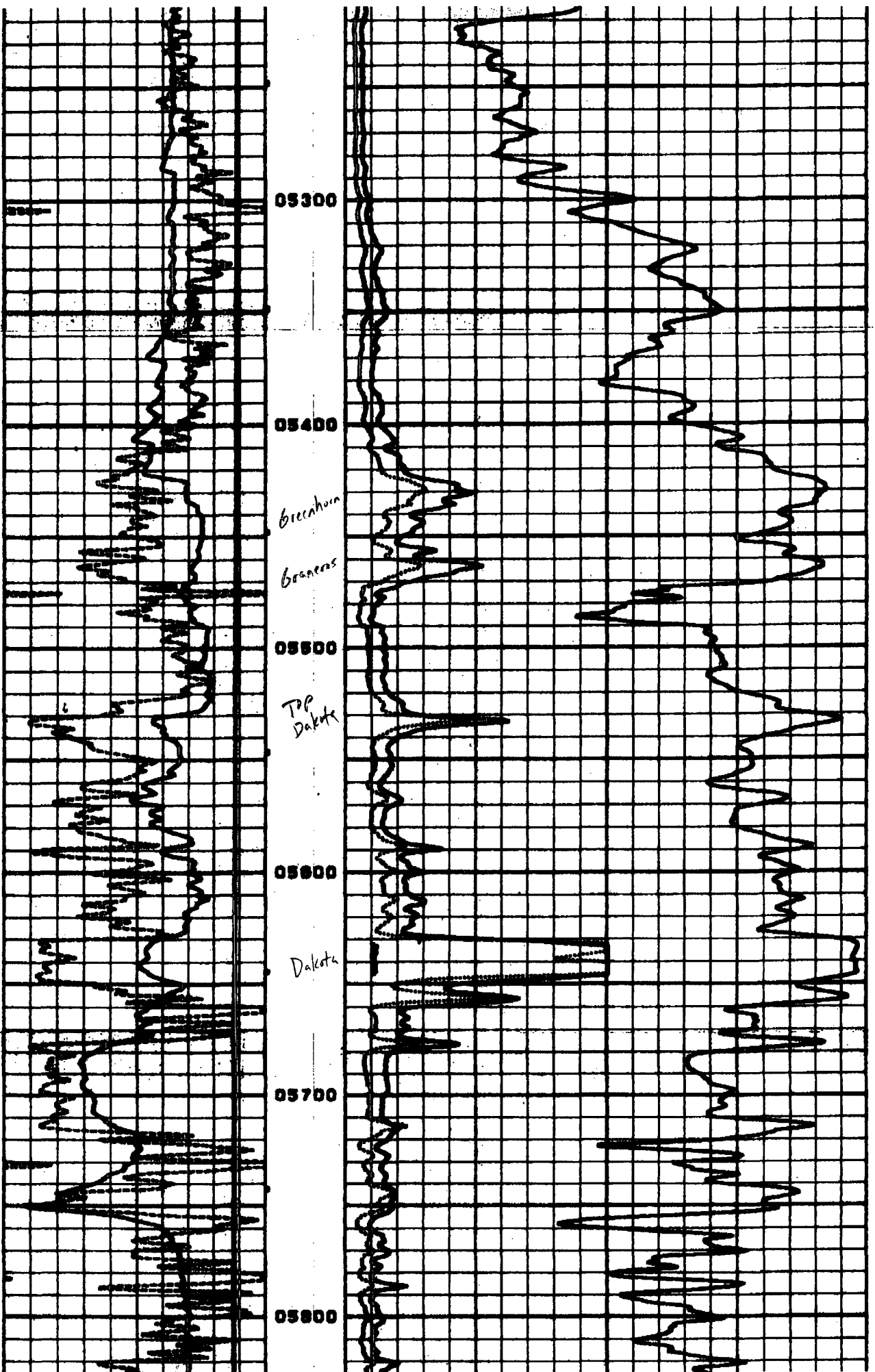
04900

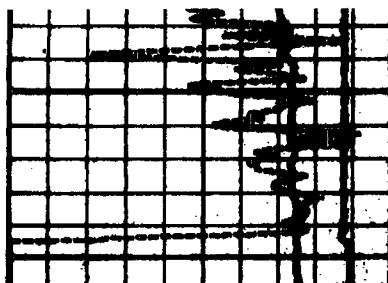

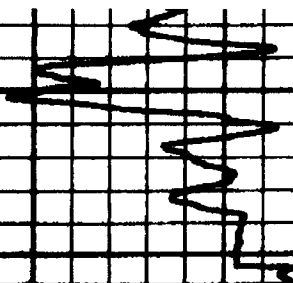
05000

05100

05200





					
		09200			
0.0 -1101+ 100.0		400 C(IID)		MNHOS 0	
0 GR API 200		0 R(IID) Q-M 100			
		0 R(SN) Q-M 100			
08-23-84 14:23		5910.0 273935		0040-27 0 0001-19 3	

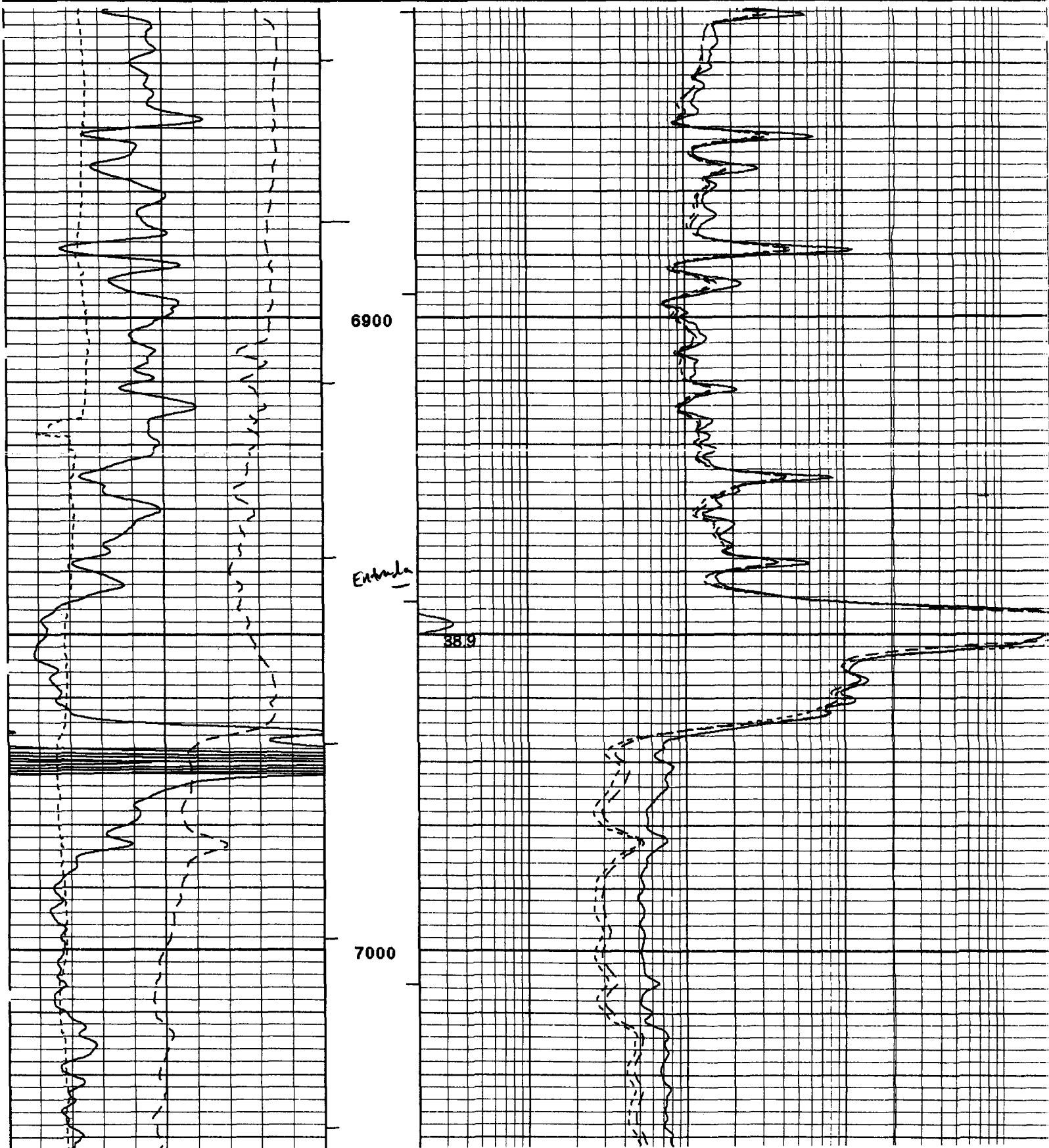
HALLIBURTON

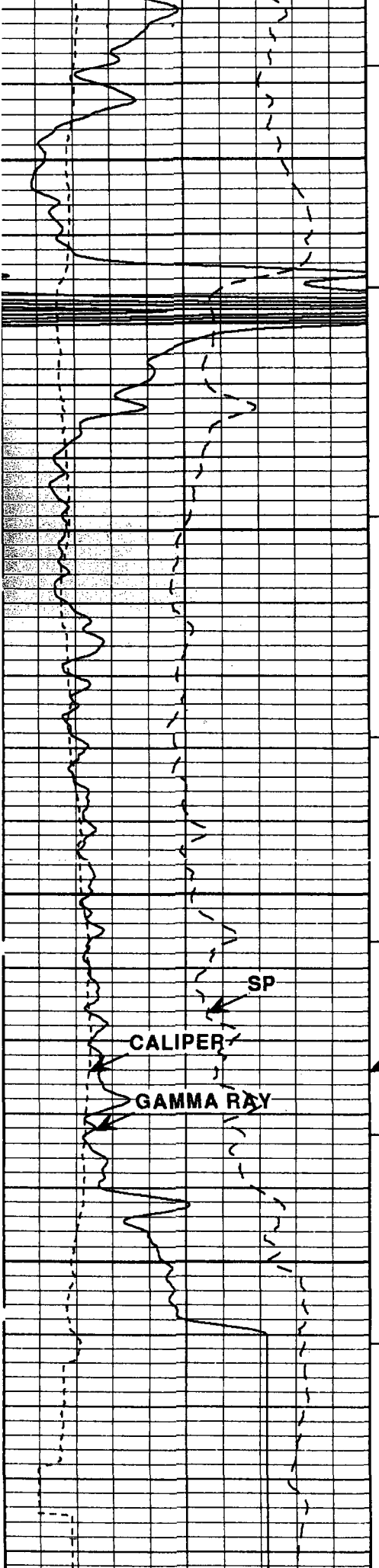


HIGH RESOLUTION INDUCTION LOG

COMPANY <u>RICHARDSON OPERATING COMPANY</u> WELL <u>SALTY DOG SWD #3-R</u> FIELD <u>FRUITLAND</u> COUNTY <u>SAN JUAN</u> STATE <u>NM</u>	COMPANY <u>RICHARDSON OPERATING COMPANY</u> WELL <u>SALTY DOG SWD #3-R</u> FIELD <u>FRUITLAND</u> COUNTY <u>SAN JUAN</u> STATE <u>NM</u> <div style="display: flex; justify-content: space-between;"> <div> API No. <u>300453127400</u> Location <u>0850' FSL</u> <u>0770' FEL</u> </div> <div> Other Services DSN/SDL </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> Sect <u>28</u> Twp <u>30N</u> Rge <u>14W</u> </div>
Permanent Datum <u>GROUND LEVEL</u> Elev <u>5572'</u> Log measured from <u>K.B.</u> <u>12'</u> ft. above perm. datum Drilling measured from <u>KELLY BUSHING</u>	
Elev. : K.B. <u>5584'</u> D.F. <u>5583'</u> G.L. <u>5572'</u>	
Date	<u>01-05-03</u>
Run No.	<u>ONE</u>
Depth - Driller	<u>7164'</u>
Depth - Logger	<u>7165'</u>
Bottom - Logged Interval	<u>7156'</u>
Top - Logged Interval	<u>2250'</u>
Casing - Driller	<u>8.625 @ 437'</u>
Casing - Logger	<u>432'</u>
Bit Size	<u>7.875"</u>
Type Fluid in Hole	<u>LSND</u>
Dens. Visc.	<u>9.2 90</u>
Ph Fluid Loss	<u>9.0 10</u>
Source of Sample	<u>FLOWLINE</u>
Rm @ Meas. Temp.	<u>3.4 @ 48 F</u>
Rmf @ Meas. Temp.	<u>3.1 @ 48 F</u>
Rmc @ Meas. Temp.	<u>3.5 @ 48 F</u>
Source Rmf Rmc	<u>MEAS MEAS</u>
Rm @ BHT	<u>1.446 @ 122 F</u>
Time Since Circ.	<u>01-05 0800</u>
Time on Bottom	<u>01-05 1530</u>
Max. Rec. Temp.	<u>122 F @ T.D.</u>
Equip. Location	<u>15081 G.J.</u>
Recorded By	<u>G. TWEEDIE</u>
Witnessed By	<u>J. DURHAM</u>

0	APICOUNTS	200	50	0	.2	OHMM	2000
	CALIPER			BHV		MED RES	
6	INCHES	16	0	50	.2	OHMM	2000
	SP			1:240		DFL	
	-]10[+			FT.	.2	OHMM	2000
							TENSION
						10000	POUNDS
							0



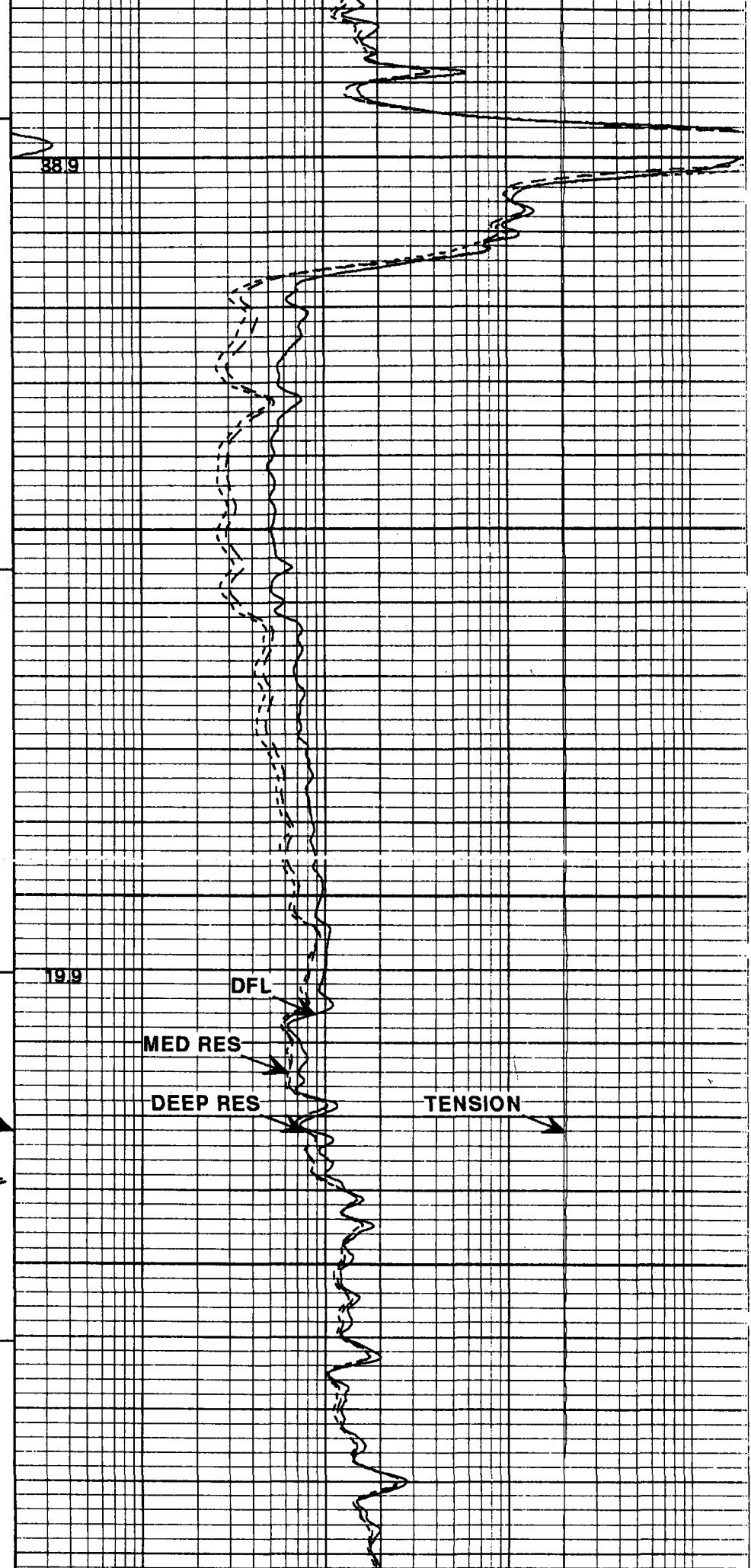


7000

BHV

AHV

7100



38.9

19.9

LANCE OIL & GAS COMPANY, INC.

PO Box 70



February 14, 2005

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0908 6333

Mr. Ron Lanning
Chase Oil Corporation
P.O. Box 1767
Artesia, New Mexico 88211

RE: C-108 Authorization to Inject Application
Proposed Lance Salty Dog #5 SWD Well
Township 29 North, Range 14 West, NMPM
1030' FNL & 1365' FEL
Section 16: NE/4
San Juan County, New Mexico

Dear Mr. Lanning:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Lance Oil & Gas Company, Inc. is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Lance Oil & Gas Company, Inc.'s Salty Dog #5 SWD well in the Entrada formation.

Well Name:	Salty Dog #5
Proposed Injection Zone:	Entrada
Location:	1030' FNL & 1365' FEL Section 16, T29N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Lance Oil & Gas Company, Inc.
Applicant's Address:	Box 70, Kirtland, NM 87417
Applicant's Phone No:	505/598-5601, Ext. 57

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/598-5601, Ext. 57 (Lance's Land Office) if you have any questions.

Sincerely,

Paul Lehrman

Enclosures

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		<p>A. Signature X <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p style="text-align: center;">Ron Lanning Chace Oil Corp Box 1767 Artesia, NM 88211</p>		<p>B. Received by (Printed Name)</p>	<p>C. Date of Delivery</p>
<p>2. Article Number (Transfer from service label) 7002 3150 0002 0908 6333</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
		<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>	
		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

PS Form 3811, August 2001

Domestic Return Receipt

2ACPRI-03-Z-0985



U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
<p>Sent To Ron Lanning / Chace Oil Corp</p> <p>Street, Apt. No., or PO Box No. Box 1767</p> <p>City, State, ZIP+4 Artesia, NM 88211</p>	
<p>PS Form 3800, June 2002</p> <p style="text-align: right;">See Reverse for Instructions</p>	

LANCE OIL & GAS COMPANY, INC.

PO Box 70



Kirtland, New Mexico 87417

February 14, 2005

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0908 6326

Mr. Frank Schilling
Burlington Resources Oil and Gas Corp.
P.O. Box 4289
Farmington, New Mexico 87499

RE: C-108 Authorization to Inject Application
Proposed Lance Salty Dog #5 SWD Well
Township 29 North, Range 14 West, NMPM
1030' FNL & 1365' FEL
Section 16: NE/4
San Juan County, New Mexico

Dear Mr. Schilling:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Lance Oil & Gas Company, Inc. is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Lance Oil & Gas Company, Inc.'s Salty Dog #5 SWD well in the Entrada formation.

Well Name:	Salty Dog #5
Proposed Injection Zone:	Entrada
Location:	1030' FNL & 1365' FEL Section 16, T29N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Lance Oil & Gas Company, Inc.
Applicant's Address:	Box 70, Kirtland, NM 87417
Applicant's Phone No:	505/598-5601, Ext. 57

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/598-5601, Ext. 57 (Lance's Land Office) if you have any questions.

Sincerely,



Paul Lehman

Enclosures

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

*Mr. Frank Schilling
Burlington Resources
Box 4289
Farmington, NM 87499*

2. Article Number
(Transfer from service label)

7002 3150 0002 0908 6326

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

- D. Is delivery address different from item 1?** ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

- ☐ Yes

PS Form 3811, August 2001

Domestic Return Receipt

2ACPRI-03-Z-0985



U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

Sent To *Frank Schilling / Burlington Res.*
Street, Apt. No., or PO Box No. *Box 4289*
City, State, ZIP+4 *Farm. NM 87499*

PS Form 3800, June 2002
See Reverse for Instructions

LANCE OIL & GAS COMPANY, INC.

PO Box 70



February 14, 2005

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0908 6340

Ms. Judith Barr
Evco Development Co.
P.O. Box 245
Sausalito, CA 94966

RE: C-108 Authorization to Inject Application
Proposed Lance Salty Dog #5 SWD Well
Township 29 North, Range 14 West, NMPM
1030' FNL & 1365' FEL
Section 16: NE/4
San Juan County, New Mexico

Dear Ms. Barr:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Lance Oil & Gas Company, Inc. is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Lance Oil & Gas Company, Inc.'s Salty Dog #5 SWD well in the Entrada formation.

Well Name:	Salty Dog #5
Proposed Injection Zone:	Entrada
Location:	1030' FNL & 1365' FEL Section 16, T29N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Lance Oil & Gas Company, Inc.
Applicant's Address:	Box 70, Kirtland, NM 87417
Applicant's Phone No:	505/598-5601, Ext. 57

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/598-5601, Ext. 57 (Lance's Land Office) if you have any questions.

Sincerely,


Paul Lehman

Enclosures

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		A. Signature X <div style="text-align: right;"> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee </div>	
		B. Received by (Printed Name)	C. Date of Delivery
1. Article Addressed to: <div style="text-align: center;"> <p><i>Evco Development</i> <i>attn: Judith Barr</i> <i>PO Box 245</i> <i>Sausalito, CA</i> <i>94966</i></p> </div>		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
		3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
2. Article Number (Transfer from service label)		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
7002 3150 0002 0908 6340			
PS Form 3811, August 2001		Domestic Return Receipt	
		2ACPRI-03-Z-0985	

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.
CERTIFIED MAIL™

7002 3150 0002 0908 6340
7002 3150 0002 0908 6340

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Postmark Here	
Sent To <i>Judith Barr / Evco Develop.</i>	
Street, Apt. No., or PO Box No. <i>Box 245</i>	
City, State, ZIP+4 <i>Sausalito, CA 94966</i>	
PS Form 3800, June 2002 See Reverse for Instructions	

LANCE OIL & GAS COMPANY, INC.

PO Box 70



February 14, 2005

Certified Mail

Return Receipt Requested

Article No. 7002 3150 0002 0908 6357

Mr. Harry Nowak
Conoco Inc.
3070 WL
Post Office Box 2197
Houston, Texas 77252

RE: C-108 Authorization to Inject Application
Proposed Lance Salty Dog #5 SWD Well
Township 29 North, Range 14 West, NMPM
1030' FNL & 1365' FEL
Section 16: NE/4
San Juan County, New Mexico

Dear Mr. Nowak:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Lance Oil & Gas Company, Inc. is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Lance Oil & Gas Company, Inc.'s Salty Dog #5 SWD well in the Entrada formation.

Well Name:	Salty Dog #5
Proposed Injection Zone:	Entrada
Location:	1030' FNL & 1365' FEL Section 16, T29N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Lance Oil & Gas Company, Inc.
Applicant's Address:	Box 70, Kirtland, NM 87417
Applicant's Phone No:	505/598-5601, Ext. 57

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/598-5601, Ext. 57 (Lance's Land Office) if you have any questions.

Sincerely,


Paul Lehman

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Harry Nowak
Conoco, Inc.
3070 WL
Box 2197
Houston, TX 77252

2. Article Number

(Transfer from service label)

7002 3150 0002 0908 6357

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent

☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

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☐ Express Mail

☒ Registered

☐ Return Receipt for Merchandise

☐ Insured Mail

☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

PS Form 3811, August 2001

Domestic Return Receipt

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Sent To

Harry Nowak / Conoco

Street, Apt. No.,
or PO Box No.

3070 WL

Box 2197

City, State, ZIP+4

Houston, TX 77252

PS Form 3800, June 2002

See Reverse for Instructions

LANCE OIL & GAS COMPANY, INC.

PO Box 70



February 14, 2005

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0908 6364

Mr. Dave Poage
Energen Resources Corp.
2198 Bloomfield Hwy
Farmington, NM 87401

RE: C-108 Authorization to Inject Application
Proposed Lance Salty Dog #5 SWD Well
Township 29 North, Range 14 West, NMPM
1030' FNL & 1365' FEL
Section 16: NE/4
San Juan County, New Mexico

Dear Mr. Poage:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Lance Oil & Gas Company, Inc. is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Lance Oil & Gas Company, Inc.'s Salty Dog #5 SWD well in the Entrada formation.

Well Name:	Salty Dog #5
Proposed Injection Zone:	Entrada
Location:	1030' FNL & 1365' FEL Section 16, T29N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Lance Oil & Gas Company, Inc.
Applicant's Address:	Box 70, Kirtland, NM 87417
Applicant's Phone No:	505/598-5601, Ext. 57

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/598-5601, Ext. 57 (Lance's Land Office) if you have any questions.

Sincerely,

Paul Lehman

Enclosures

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature X</p> <p><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>Energex Resources Corp 2198 Bloomfield Hwy Farm. WA 87401</p>		<p>B. Received by (Printed Name)</p>	<p>C. Date of Delivery</p>
<p>2. Article Number (Transfer from service label)</p> <p>7002 3150 0002 0908 6364</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

PS Form 3811, August 2001

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Total Postage & Fees \$	
<p>Sent To Energex Resources Corp</p> <p>Street, Apt. No., or PO Box No. 2198 Bloomfield Hwy</p> <p>City, State, ZIP+4 Farm WA 87401</p>	

PS Form 3800, June 2002

See Reverse for Instructions



PATRICK H. LYONS
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE

Phone (505) 827-5760

Fax (505) 827-5766

www.nmstatelands.org

20 January 2005

Mr. Paul Lehrman
Lance Oil & Gas Co.
P.O. Box 70
Kirtland, New Mexico 87417

COPY

Re: Salty Dog #5 Well Survey; ARMS NMCRIS Project Activity No. 91062; Western
Archaeological Services (WAS) Report No. WAS 0470

Dear Mr. Lehrman:

I have reviewed the captioned report submitted by Mr. Patrick Harden of Western Archaeological Services (WAS) on behalf of Lance Oil & Gas Co. (Lance) of Kirtland, New Mexico. The report concerns the survey for a proposed well pad on State Trust land near Kirtland, in San Juan County, New Mexico.

WAS' survey of the area encountered no cultural resources in the course of the fieldwork. WAS' report documents the apparent absence of eligible cultural properties on New Mexico State Trust land within the project's probable area of effect. Given this absence, there apparently will be no effect on known cultural properties located on State Trust land from Lance's proposed well pad. Therefore, I recommended a finding of no effect for this undertaking, and the State Historic Preservation Officer (SHPO) has indicated concurrence with this recommendation by stamp and signature on the consultation letter.

Having fulfilled its obligations to protect cultural resources that may have been affected by its actions, Lance is free to proceed with this undertaking. As always, should any unanticipated cultural materials be noted during construction, ground disturbance in their vicinity should cease and the SLO and SHPO should be notified. The SLO greatly appreciates Lance's efforts to identify, preserve, and protect the cultural resource assets of the Trust. If you have any questions or require additional information regarding this undertaking, please do not hesitate to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "David C. Eck".

David C. Eck
Trust Land Archaeologist
Xc: Compliance File 04DE243cl

(505) 827-5857
deck@slo.state.nm.us

LANCE OIL & GAS COMPANY, INC.

PO Box 70



Kirtland, New Mexico 87417

TO: MR. WILLIAM JONES/NMOCD
FROM: PAUL LEHRMAN/LANCE OIL & GAS COMPANY, INC.
SUBJECT: SALTY DOG #5 SLO NOTIFICATION
DATE: 2/17/2005
CC:

Mr. Jones- attached is the copy of the Certified Letter, etc. going out to Mr. Martinez today.

Thanks for the time on the phone and the help!!!!

If needed, my phone is 505/598-5601, Ext. 57. E-Mail is plehrman@westerngas.com

Thanksagain!!!!

Paul

LANCE OIL & GAS COMPANY, INC.

PO Box 70



Kirtland, New Mexico 87417

February 17, 2005

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 1032

Mr. Pete Martinez
New Mexico State Land Office
Post Office Box 1148
Santa Fe, NM 87504-1148

RE: C-108 Authorization to Inject Application
Proposed Lance Salty Dog #5 SWD Well
Township 29 North, Range 14 West, NMPM
1030' FNL & 1365' FEL
Section 16: NE/4
San Juan County, New Mexico

Dear Mr. Martinez:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Lance Oil & Gas Company, Inc. is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Lance Oil & Gas Company, Inc.'s Salty Dog #5 SWD well in the Entrada formation.

Well Name:	Salty Dog #5
Proposed Injection Zone:	Entrada
Location:	1030' FNL & 1365' FEL Section 16, T29N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Lance Oil & Gas Company, Inc.
Applicant's Address:	Box 70, Kirtland, NM 87417
Applicant's Phone No:	505/598-5601, Ext. 57

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Once the C-108 is approved, Lance will submit paperwork to the State Land Office for a "Salt Water Disposal Easement". Thank you for your consideration in this matter.

Please call me at 505/598-5601, Ext. 57 (Lance's Land Office) if you have any questions.

Sincerely,

Paul Lehman

Enclosures

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

New Mexico State Land Office
attn: Mr. Peter Martinez
P.O. Box 1148
Santa Fe, NM 87504

2. Article Number
(Transfer from service label)

7002 3150 0002 0907 1032

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent

☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
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- ☐ Registered ☐ Return Receipt for Merchandise
- ☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

PS Form 3811, August 2001

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Restricted Delivery Fee (Endorsement Required)

Total Postage & Fees \$

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Sent To

Mr. Peter Martinez / NM State Land Off.
Street, Apt. No., or PO Box No. P.O. Box 1148
City, State, ZIP+4 Santa Fe, NM 87504

TRANSACTION REPORT

P. 01

FEB-17-2005 THU 02:36 PM

FOR:

RECEIVE

DATE	START	SENDER	RX TIME	PAGES	TYPE	NOTE	M#	DP
FEB-17	02:35 PM	5055980064	1' 11"	3	RECEIVE	OK		

LANCE OIL & GAS COMPANY, INC.

PO Box 70



Kirtland, New Mexico 87417

FAX 505/476-3462

TO: MR. WILLIAM JONES/NMOCD
FROM: PAUL LEHRMAN/LANCE OIL & GAS COMPANY, INC.
SUBJECT: ARCH REPORT FOR SALTY DOG #5
DATE: 2/17/2005
CC:

Mr. Jones- attached is complete Arch report for this project. Hope this helps.

Also attached is questionnaire for Disposal Easement

If needed, my phone is 505/598-5601, Ext. 57. E-Mail is plehrman@westernngas.com

Thanks!

Paul

**NEW MEXICO STATE LAND OFFICE****QUESTIONNAIRE TO BE COMPLETED IN CONNECTION
WITH SALT WATER DISPOSAL WELL EASEMENT**

1. What is the oil and gas mineral ownership of the land from which the salt water will be produced?

Private 10 %, State 60 %, Federal 30 %.

2. What is the approximate number of barrels of salt water that will be injected into the well per day?

2500

3. What is the formation into which the salt water will be injected? Entrada

4. Have you enclosed consent of the oil and gas lessee for the use as a salt water disposal well? N/A

5. From which well(s) is the salt water being produced and to be injected? (Give complete description of oil wells.) Ropco 16-1/16-2/16-3/16-4 located in Sec. 16-T29N-R14W

WF Federal 9-3/9-4 location in Sec. 9-T29N-R14W

6. What is your O.C.C. Order No. _____

7. What reaction have the adjacent wells reflected from the injected water? (Answer only if this is a renewal application.) N/A

8. What is estimated reservoir of oil still to be recovered from wells which are the source of the salt water?

N/A

9. What is the estimated time that it will take to deplete the well or wells? _____

N/A

Signed by: Paul Lehrman

Paul Lehrman

Address: Lance Oil & Gas Company, Inc.

Box 70, Kirtland, NM 87417

FOR OFFICE USE ONLY

Approved by O.C.C.: _____

WESTERN ARCHEOLOGICAL SERVICES

22491 Road D6, Cortez, Colorado 81321 Tele. (970) 564-9278 FAX 564-5819

December 10, 2004

Mr. David Eck
N.M. State Lands Office
P.O. Box 1148
Santa Fe, New Mexico 87504

Mr. Eck:

It seems I was confused about the name for the report for Lance Oil & Gas Co.'s Salty Dog well located in San Juan County. I told you the well name had been changed from the #5 to the #7 - this was in error and the well name should be the Salty Dog #5. If you could change the numeration on the report it would be appreciated. Sorry for any inconvenience or confusion.

Sincerely,



Patrick Harden

WESTERN ARCHEOLOGICAL SERVICES

22491 Road D6, Cortez, Colorado 81321 Tele. (970) 564-9278 FAX 564-5819

December 9, 2004

Mr. Jim Copeland
San Juan District Archeologist
Bureau of Land Management
1235 La Plata Hwy.
Farmington, New Mexico 87401

Mr. Copeland:

Please find enclosed two copies of the archeological survey report for Lance Oil & Gas Co.'s Salty Dog #7 well site located in San Juan County, N.M. Archeological clearance is recommended.

Sincerely,



Patrick Harden

*Should be
Salty Dog #5*

Copy To:

Lance Oil & Gas Co.
N.M. State Lands Office

WESTERN ARCHEOLOGICAL SERVICES

22491 Road D6, Cortez, Colorado 81321 Tele. (970) 564-9278 FAX 564-5819

December 9, 2004

Mr. David Eck
N.M. State Lands Office
P.O. Box 1148
Santa Fe, New Mexico 87504

Mr. Eck:

Please find enclosed a copy of the archeological survey report for Lance Oil & Gas Co.'s Salty Dog #7 well site in San Juan County, N.M. The notification of the survey sent to you earlier listed the project as the Salty Dog #5 well, but this was changed to the #7. Archeological clearance is recommended.

Sincerely,



Patrick Harden

1273-04
Should be
Salty Dog #5
not #7.

1. BLM Report No.	2. BLM Review: (initial & date)	3. NMCRIS No. 91062
-------------------	------------------------------------	------------------------

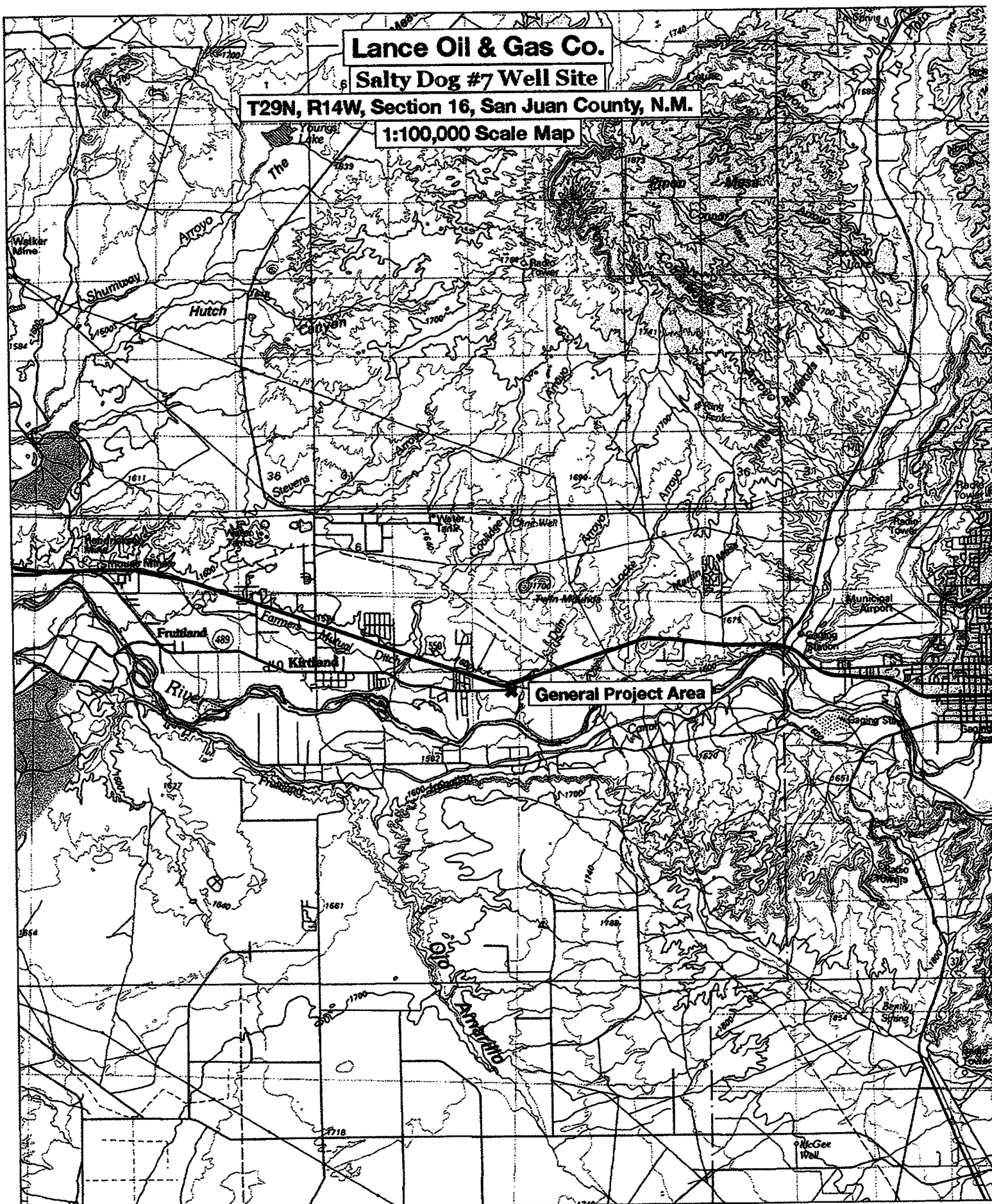
6. Report Date: 12/9/04

9. Consultant Rpt. No.
WAS 0470

Ind. Responsible: Mr. Paul Lehrman
Org. Name: Lance Oil & Gas Co.
Org. Address: P.O. Box 70 Kirtland, N.M. 87417
Phone No.: 505-598-5601

g. 7.5" Map Name: Kirtland, N.M.

c. Area Environmental / Cultural Setting: The well pad is located in flat terrain on the second terrace above the San Juan River and ca. 1/2 mile north of the river. Hwy. 550 is along the north side of the surveyed area, a county road is along the south side, and an existing well pad is along the west side. Virtually all of the area has been disturbed from hwy. and road construction, an irrigation ditch, and the well pad. Vegetation consists of greasewood, saltbush, rabbitbrush, knapweed, grasses, Russian thistle, tamarisk, and willows. Sediments are alluvial sand and gravels and cobbles.

Lance Oil & Gas Co.**Salty Dog #7 Well Site****T29N, R14W, Section 16, San Juan County, N.M.****1:100,000 Scale Map**

TN 11°

0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 miles
0 1 2 3 4 5 kmMap created with TOPO100 ©2003 National Geographic (www.nationalgeographic.com/Topo)

The cultural resources in the general project vicinity vary and may include small habitations to special use type sites with periods of occupation ranging from Archaic to Historic (including Navajo sites), although most sites are affiliated with an Anasazi occupation (ca. 500-1200 A.D.), which are primarily manifested by lithic and sherd scatters with or without use features. Site density is relatively low.

d. Field Methods: A series of transects spaced 15m apart were walked across an area 505 x 560' surrounding the well center stake. The surveyed area includes a 50' wide construction zone and a 100' wide buffer zone around the well site. Access is via an existing road which goes to the Ropco 16 #1 well located along the west side of the proposed well. The well was staked and flagged prior to the survey.

e. Artifacts Collected? no

15. Cultural Resource Findings (isolates only)

a. Location / Identification of Each Resource:

none

b. Evaluation of Significance of Each Resource (above):

n/a

16. Management Summary (Recommendations):

archeological clearance recommended

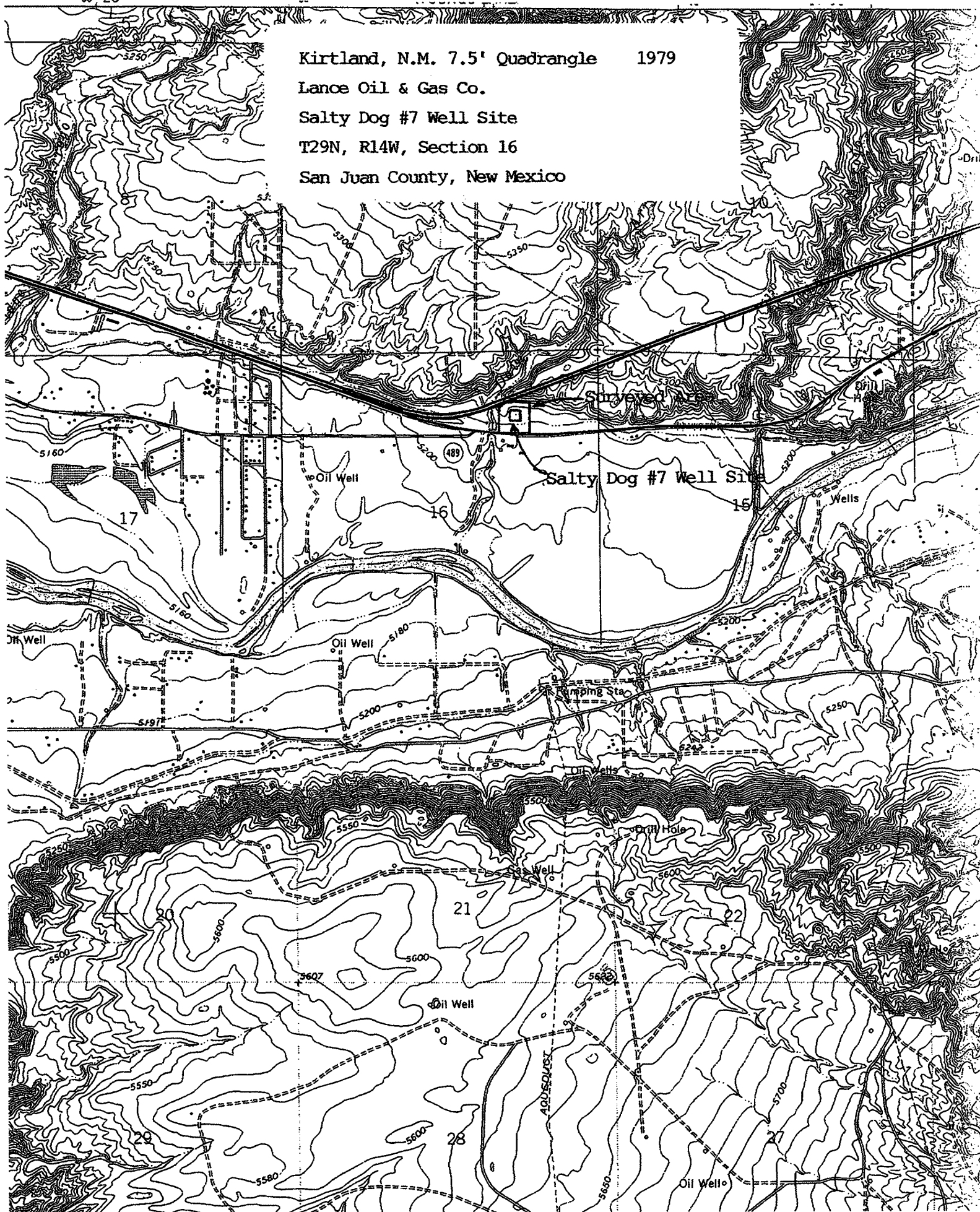
Kirtland, N.M. 7.5' Quadrangle 1979

Lance Oil & Gas Co.

Salty Dog #7 Well Site

T29N, R14W, Section 16

San Juan County, New Mexico



State of New Mexico
Energy, Minerals & Mining Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C - 102

☐ AMENDED REPORT

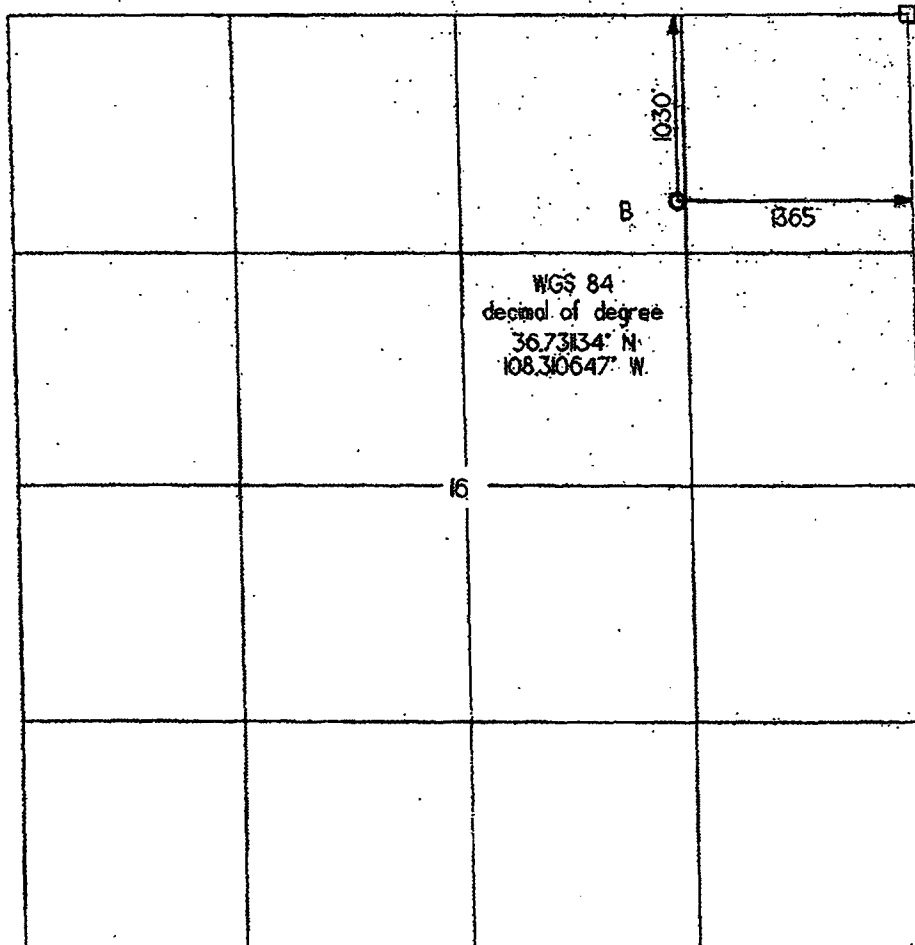
WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number	Pool Code	Pool Name
Property Code	Property Name Salty Dog	Well Number 5
OGRID No.	Operator Name LANCE OIL & GAS COMPANY, INC.	Elevation 5213'

Surface Location									
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from	North/South	Feet from	East/West	County
B	16	29 N.	14 W.		1030'	NORTH	1365'	East	SAN JUAN

Bottom Hole Location If Different From Surface									
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from	North/South	Feet from	East/West	County
Dedication	Joint ?	Consolidation	Order No.						

NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.



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

Signature

Printed Name

Title

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location 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 belief.

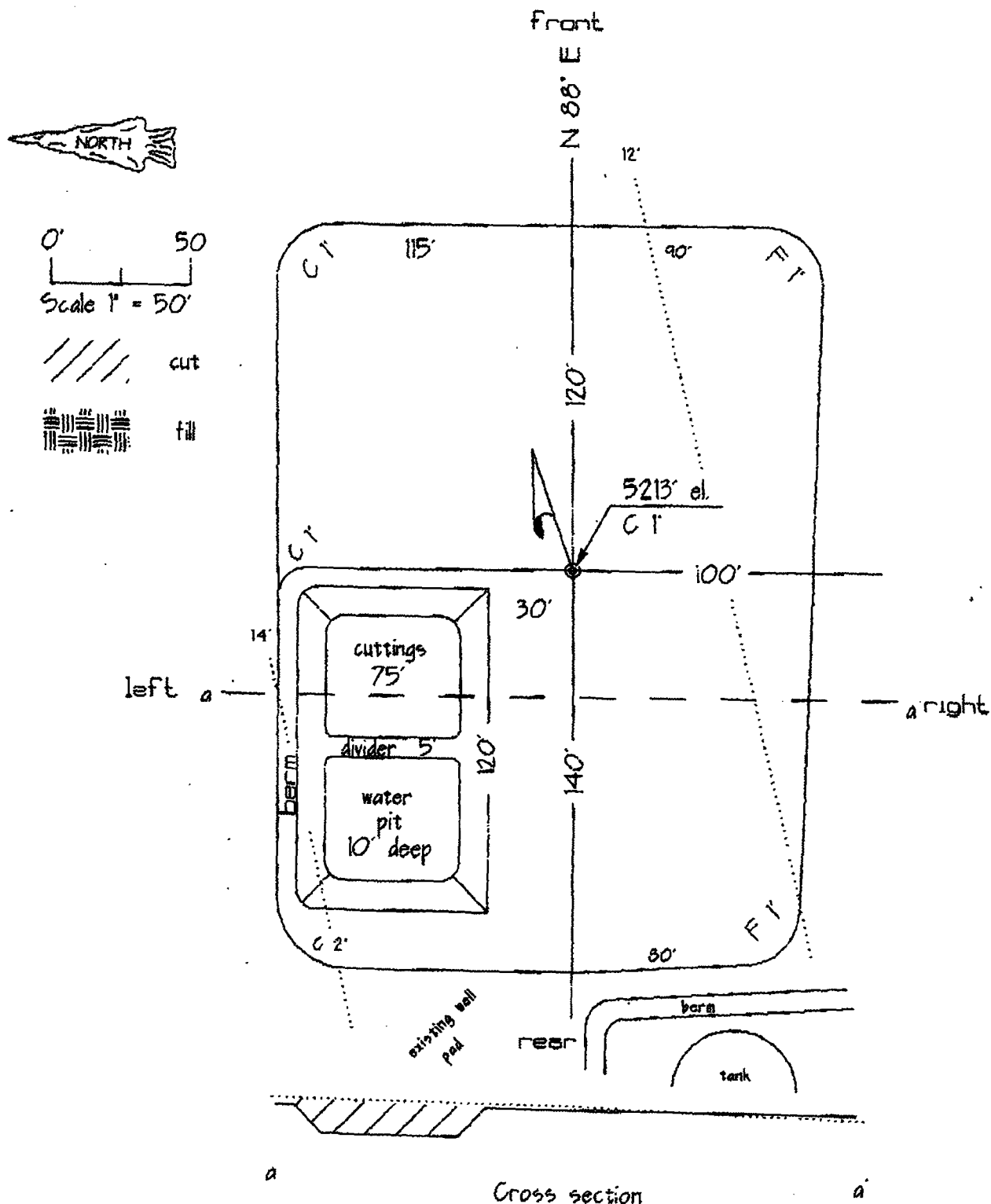
Date of Survey

11/30/04

Signature and Seal of Professional Surveyor



Salty Dog # 5
well pad & section



WESTERN ARCHEOLOGICAL SERVICES

22491 ROAD D6, CORTEZ, COLORADO 81321 TELE. (970) 564-9278 FAX 564-5819

December 15, 2004

Mr. Paul Lehrman
Lance Oil & Gas Co.
P.O. Box 70
Kirtland, New Mexico 87417

Mr. Lehrman:

Please find enclosed a copy of the archeological survey report requested by the N.M. State Lands Office for your Salty Dog #5 well. They received the negative report on the BLM survey form, but requested that the report be on their form and also a State NMCRIS activity form be completed. If you have any questions please give me a call.

Sincerely,



Patrick Harden

WESTERN ARCHEOLOGICAL SERVICES

22491 Road D6, Cortez, Colorado 81321 Tele. (970) 564-9278 FAX 564-5819

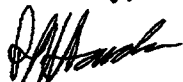
December 15, 2004

Mr. David Eck
N.M. State Lands Office
P.O. Box 1148
Santa Fe, New Mexico 87504

Mr. Eck:

Please find enclosed two copies each of the archeological survey report for Lance Oil & Gas Co.'s Salty Dog #5 well located in San Juan County, New Mexico. Per your request the report has been done on the State Land Negative Survey Report Form. Also enclosed is the Laboratory of Anthropology Investigation Record. If you have any questions please give me a call.

Sincerely,



Patrick Harden

Copy To: Lance Oil & Gas Co.

STATE LAND NEGATIVE SURVEY REPORT FORM

1. Type of project and brief description: well pad 205 x 260' in size
2. Agency Project Number:
3. Report Title: Salty Dog #5 Well Survey
4. Report Number: WAS 0470
5. Author: Patrick Harden
6. Cultural Resource Consultant:
 - a. Company: Western Archeological Services
 - b. Address: 22491 Rd. D6, Cortez, Colo. 81321
 - c. Phone Number: 970-564-9278
 - d. Field Supervisor: Patrick Harden
 - e. Field Personnel: same
7. Permit Number:
 - a. State Land No.: 04-059
 - b. Other Agency No.:
8. NMCRIS Project Number: 91062
9. Sponsor name, address, phone: Lance Oil & Gas, PO 70, Kirtland, NM
10. Acreage by Land Status:
 - a. Federal:
 - b. State: 6.5
 - c. Private:
 - d. Total Number Acres:
11. Location (Attach map):
 - a. County: San Juan
 - b. Nearest Town: Kirtland
 - c. Legal Description: T29N, R14W, Sec. 16 (NW NE)
 - d. 7.5' Map Name: Kirtland
 - e. Size of Survey Area (LxW): 505 x 560
12. Date of Records Search: 11/4/04
 - a. NMCRIS: 11/4/04; 12/15/04
 - b. Other Records: 11/4/04
13. LA# & Site Types Within 1 Mile of Project: LA8294: Anasazi Hab.; 31263: unknown prehistoric; 131468: Anasazi scatter with feature; 131469: unknown artifact scatter; 134927: Anasazi artifact scatter

14. Cultural Overview References & Recent Major Research: *Gallegos Mesa Settlement and Subsistence: A Set of Explanatory Models for Cultural Resources on Blocks VIII, IX, and XI, Navajo Indian Irrigation Project, vol. I.* Vogler, Gilpin, and Anderson, eds. (1982); *Overview and Research Design for the Fruitland Coal Gas Development Area.* Hogan, Elyea, & Eschman (1991). *Archaeological Investigations in the Fruitland Project Area: Late Archaic, Basketmaker, Pueblo I, and Navajo Sites in Northwestern New Mexico, vol. II: The Late Archaic Sites.* Hovezak and Sesler (2002).

15. Environmental Setting (note amount vegetation cover): The well site is located in flat terrain on the second terrace above the San Juan River and ca. 1/2 mile north of the river. Virtually all of the area has been disturbed from hwy. and road construction, an irrigation ditch, and an existing well pad. Vegetation consists of greasewood, saltbush, rabbitbrush, knapweed, grasses, Russian thistle, tamarisk, and willows. Ground exposure is ca. 50%.

16. Condition of Survey Area (grazed, bladed, undisturbed, etc.): 90-100% disturbed from above noted factors

17. Percent Ground Visibility: 50%

18. Field Methods:

- a. Transect Interval: 15m
- b. Crew Size: 1
- c. Time in Field: 2 hrs.

19. Survey Results (include possible reasons for lack of sites): no cultural resources found

20. Attachments:

- a. Location Map yes
- b. Table of Isolated Occurrences n/a
- c. Bridge Photos! (if older than 1971 and no effect) no
- d. NMCRIS Project/Activity Form yes
- e. Historic Cultural Properties Inventory Form, if applicable no
- f. Cover Letter From Sponsoring Agency no

I certify that the information provided above is correct and accurate and meets all New Mexico State Land guidelines.

PI


Signature

12/15/04

Date

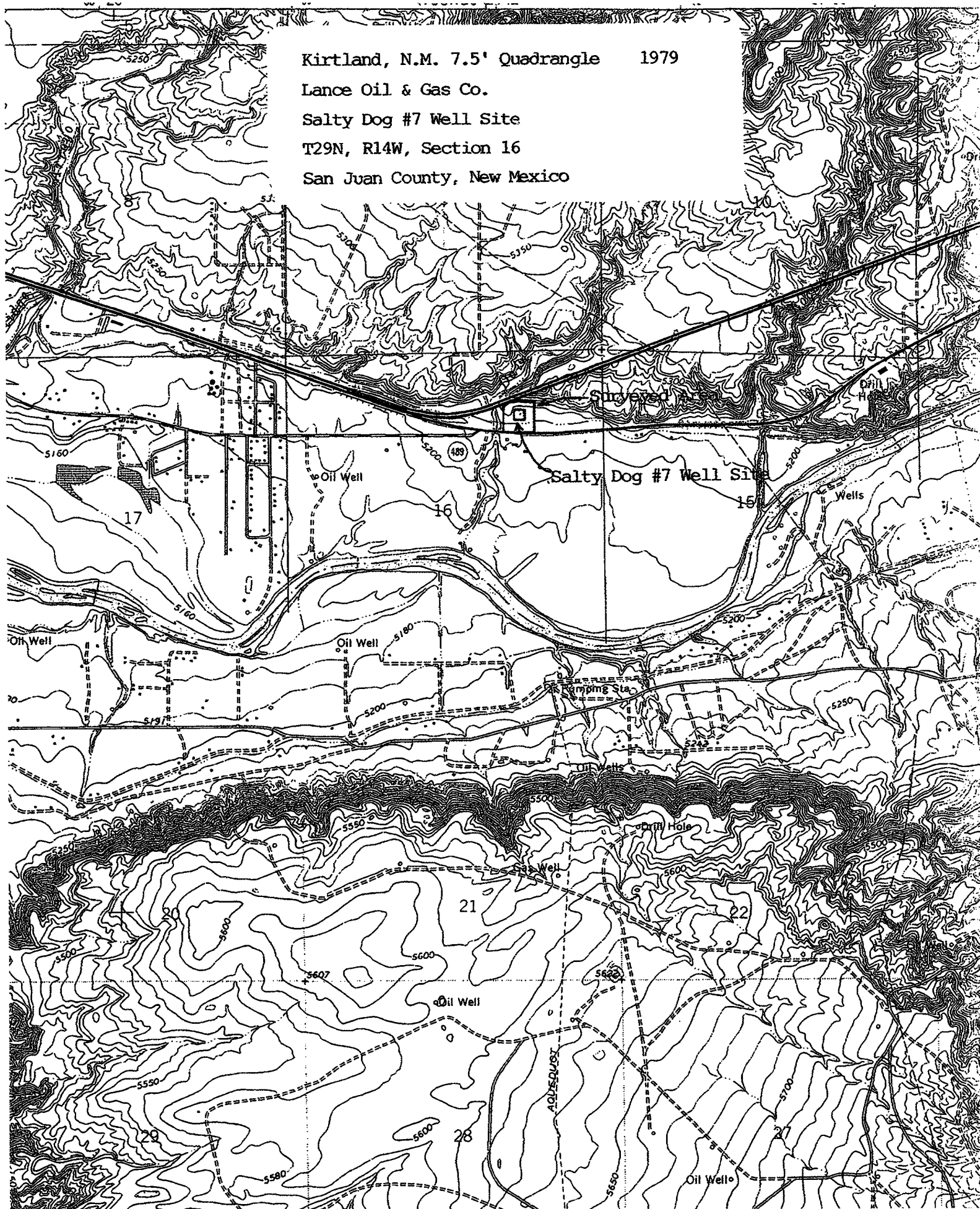
Kirtland, N.M. 7.5' Quadrangle 1979

Lance Oil & Gas Co.

Salty Dog #7 Well Site

T29N, R14W, Section 16

San Juan County, New Mexico



LABORATORY OF ANTHROPOLOGY INVESTIGATION RECORD**1. PROJECT AND ACTIVITY DATA**

NMCRIS NO.: 91062

Sponsoring Agency: Lance Oil & Gas

Project ID Number: Project Name: Salty Dog #5

Description of Undertaking (optional):

Other Permitting Agencies:

Performing Agency: Western Archeological Services

Activity ID Number: WAS 0470 Activity Name: Salty Dog #5

Dates Of Investigation: 10/25, 11/18/04

Investigation Type: ☐ research design ☐ excavations ☐ monitoring/assessment
☐ overview ☒ survey ☐ ethnographic study
☐ test excavations ☐ collections/non-field studies
☐ other

Description of Investigation (optional):

2. SURVEY DATA

Total Area Surveyed: 6.5 acres Total Activity Area (if<100% coverage): acres

Total Tribal Area: acres

Intensity: ☒ 100% coverage ☐ < 100% coverageConfiguration: ☒ block survey ☐ linear survey ☐ other surveyScope: ☒ non-selective (all sites recorded) ☐ selective (selected sites recorded)Coverage Method: ☐ systematic pedestrian ☐ other

Survey Interval: 15 meters

Crew Size: 1

Survey Person Hours: 2

Site Recording Person Hours:

Source Graphics:

☒ USGS 7.5' maps☐ rectified aerial photos☐ other topos maps☐ unrectified aerial photos☒ GPS Unit Garmin 12 GPS Accuracy: ☐ <1m ☒ 1-10m ☐ > 10m☐ other source

Survey Results:

Sites Discovered and registered: 0
Previously Recorded Sites:
Total Sites: 0
Total Isolated Occurrences: 0

Surveyed Land Ownership:

<u>Owner</u>	<u>Acres Surveyed</u>
State Trust	6.5

Counties Surveyed: San Juan

Surveyed USGS Quadrangles

<u>Quadrangle Name/Date</u>	<u>USGS Code</u>
Kirtland, NM 1979	36108-F3

Kirtland, N.M. 7.5' Quadrangle 1979

Lance Oil & Gas Co.

Salty Dog #7 Well Site

T29N, R14W, Section 16

San Juan County, New Mexico

