

DATE IN 5/4/06	SUSPENSE 5/4/06	DAVID CATANACHI ENGINEER	LOGGED IN 5/4/06	TYPE IPI	APP NO. PTD50612446422
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



268

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.

Print or Type Name _____	Signature _____	Title _____	Date _____
e-mail Address _____			

LANCE OIL & GAS COMPANY, INC.

P.O. Box 70 • Kirtland, New Mexico 87417

(505) 598-5601 Ext. 43 • Fax (505) 598-0064

2006 MAY 4 AM 11 57

May 2, 2006

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St Francis Drive
Santa Fe, NM 87505

Attn: Mr. David Catanach

RE: Salty Dog #4
SW/4 Section 1, T30N – R14W
San Juan County, New Mexico
Administrative Order SWD - 924

30-045-32334

2580 ASL

1P90 FUL

SWD-924

Dear Mr. Catanach:

Lance Oil and Gas Company, Inc. (Lance) respectfully requests a modification to previously approved Administrative Order SWD – 924 dated May 30, 2004. The Maximum Allowable Operating Pressure (MAOP) requires a modification. Lance is requesting a MAOP modification from 617 psig to 1,200 psig as discussed below.

The Salty Dog #4 well was spud on February 27, 2005 and reached total depth of 4,406' KB on March 8, 2005. The well was perforated in the Cliff House and Point Lookout members of the Mesaverde Formation with a gross interval from 3,118' – 4,270' KB (net – 262') with 2 SPF. The perforated intervals were acidized with a total of 3,486 gallons 15% HCL. The 2-7/8" internally plastic coated tubing was run in the hole with a 5-1/2" packer and set at 3,057' KB with packer fluid circulated up the backside. The well was ready for water injection pursuant to the originally approved Administrative Order SWD – 924 with water injection commenced on April 21, 2005.

Step-Rate Test

A Salty Dog #4 step-rate test (SRT) was approved by the BLM on 4/14/06. Lance conducted the step rate test on 4/21/06 to ascertain the formation breakdown pressure. Mr. Kelly Roberts with the New Mexico Oil Conservation Division witnessed the step-rate injection test. The SRT was pumped down 2-7/8" internally plastic coated tubing with a packer set at 3,057' KB with Tefteller, Inc. bottomhole gauges set at 4,100' KB. The maximum injection rate achieved during the SRT was 8-1/4 bwpm with a corresponding surface injection pressure of 1,500 psig. Lance

Attachment #1 indicates the surface injection pressure and bottomhole pressure versus rate down 2-7/8" internally plastic coated tubing. As you would expect, the surface pressure increases with each step rate increase due to friction, whereas, the bottomhole pressures are fairly flat. Attachment #2 is the SRT digital data as recorded with Tefteller, Inc. bottomhole gauges and the whole data set is included for your perusal. Attachment #3 is a copy of the step rate tests as pumped by Key Energy Pressure Pumping Services.

Mr. Dave Catanach
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
May 2, 2006
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Figure #1 and #2 graphically represents the actual surface pressure (Key) and bottomhole pressures (Teffeller) down 2-7/8" plastic-lined tubing.. Lance requests a MAOP modification to 1,200 psig with 2-7/8" internally plastic coated tubing which Lance believes is below the formation parting pressure.

Your timely approval would be appreciated. Pls feel free to call Tom Erwin (505-598-5601 Ext 63) if you have any questions.

Sincerely,
LANCE OIL AND GAS COMPANY, INC.



Thomas M. Erwin, P.E.
Senior Petroleum Engineer

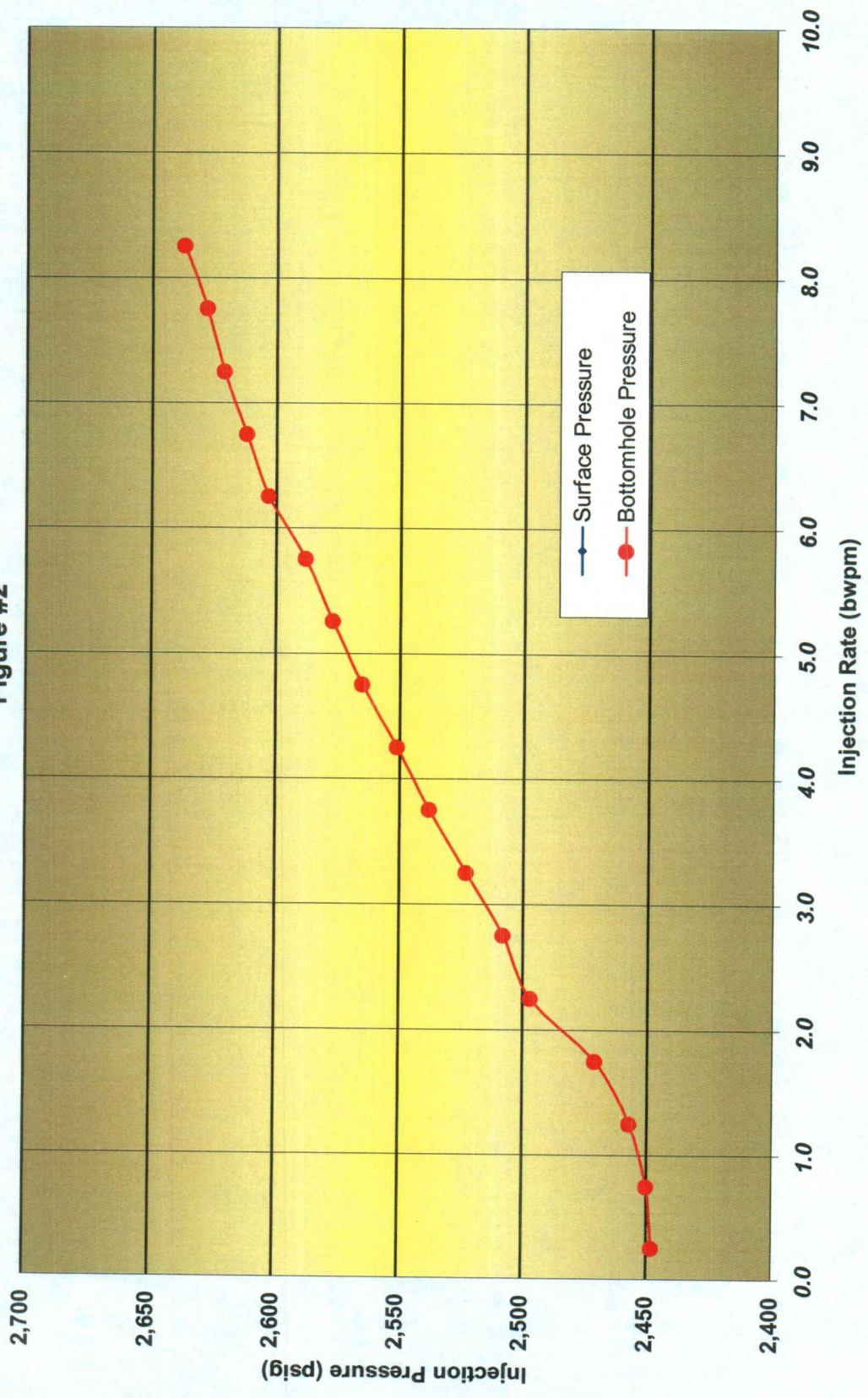
Attachments

Cc: Mr. Matt Halbert - BLM
Mr. Charlie Perrin - NMOCD
Mr. Dave Gomendi - Lance Oil & Gas

SALTY DOG #4
Step Rate Test #1
Figure #1



SALTY DOG #4
Step Rate Test #1
Figure #2

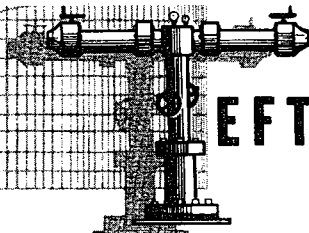


LANCE OIL & GAS COMPANY, INC.

Salty Dog #4
SW/4 Section 1, T30N - R14W
San Juan County, New Mexico

Step Rate Test #1 - 02/27/06

Fresh Water Injection Rate (bwpm)	Surface Injection Pressure (psig)	Teffeller, Inc. Bottom Hole Pressure (psig)
0.25	490.0	2,448.0
0.75	509.0	2,450.0
1.25	532.0	2,457.0
1.75	586.0	2,471.0
2.25	618.0	2,497.0
2.75	669.0	2,508.0
3.25	731.0	2,523.0
3.75	807.0	2,538.0
4.25	882.0	2,551.0
4.75	974.0	2,565.0
5.25	1,040.0	2,577.0
5.75	1,190.0	2,588.0
6.25	1,215.0	2,603.0
6.75	1,320.0	2,612.0
7.25	1,410.0	2,621.0
7.75	1,500.0	2,628.0
8.25		2,637.0



BHP • BU • PI • DD • GWT • RFS • GOR • FL • TS

EFTELLER, INC.

reservoir engineering data

FARMINGTON, NEW MEXICO/
GRAND JUNCTION, COLORADO

P. O. Box 1198
Farmington, New Mexico 87499
(505) 325-1731
Fax (505) 325-1148

2332 Interstate Ave., Ste. A
Grand Junction, CO 81505
(970) 241-0403
Fax (970) 241-7634

ATTACHMENT # 2

LANCE OIL AND GAS CO., INC.

SALTY DOG NO. 4

APRIL 20 - 22, 2006

Serving the Rocky Mountain Area

File Reference F220422.RED

Page A

Customer	LANCE OIL AND GAS CO., INC.
Street	P.O. BOX 70
City/State.....	KIRTLAND, NM 87417
Country	USA
Service Company	TEFTELLER, INC.

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Well Name ..... SALTY DOG NO. 4
Well Location ..... SAN JUAN COUNTY, NM
Field / Pool ..... CLIFF HOUSE FORMATION
Status (Oil, Gas, Other) ..... GAS
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Test Type	INJECTION AND FALL-OFF TESTS
Date of Test	4-20-06
Producing Interval	3118' - 3209'; 3944' - 4270'
Recorder Depth	4100'
Recorder Position	4100'
Shut In Date	Start: 4-20-2006

Shut In Date Start: 4-20-2006
 Stop: 4-22-2006
 Duration: 42 HRS. TANDEM ELECTRONIC INST. TIME
 Bottom Hole Temperature 93 DEGREES @ 4100'

Gauge Identification

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Gauge Manufacturer ..... MICRO-SMART SYSTEMS
Serial Number ..... 220
Model Number ..... SP2000
Pressure Range .....
Battery Type .....
Calibration I.D. ....
Last Calibration ..... 1/11/ 6
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Gauge Setup Parameters

```

Probe Set Up Time ..... 4/20/ 6 14:43: 0
Time Delay to First Reading ....
Test Type Selection ..... INJECTION AND FALL-OFF TESTS
Test Duration Selection ..... 42 HRS. TANDEM ELECTRONIC INST. TIME

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COMPANY: LANCE OIL AND GAS CO., INC.

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WELL NAME : SALTY DOG NO. 4

DATE : 04/25/06

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F220422.RED

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
04/20	14:43:00	.0000	.01	74.42		
04/20	14:49:00	6.0000	.01	75.40	.00	
04/20	14:50:00	7.0000	.01	75.56	.00	
04/20	14:51:00	8.0000	21.03	75.74	21.02	PRESSURED UP LUBRICATOR
04/20	14:51:15	8.2500	504.97	75.76	483.94	
04/20	14:55:45	12.7500	507.96	72.72	2.99	
04/20	14:59:00	16.0000	509.75	70.73	1.78	SURFACE STOP
04/20	15:00:00	17.0000	560.95	70.17	51.20	
04/20	15:00:15	17.2500	576.38	69.92	15.43	
04/20	15:00:30	17.5000	588.16	69.62	11.78	
04/20	15:00:45	17.7500	599.79	69.31	11.64	
04/20	15:01:00	18.0000	615.72	69.01	15.92	
04/20	15:01:15	18.2500	630.47	68.70	14.75	
04/20	15:01:30	18.5000	641.81	68.40	11.34	
04/20	15:01:45	18.7500	654.04	68.09	12.24	
04/20	15:02:00	19.0000	667.02	67.79	12.97	
04/20	15:02:15	19.2500	681.03	67.48	14.02	
04/20	15:02:30	19.5000	695.79	67.18	14.75	
04/20	15:02:45	19.7500	711.43	66.88	15.65	
04/20	15:03:00	20.0000	726.20	66.57	14.77	
04/20	15:03:15	20.2500	740.90	66.34	14.70	
04/20	15:03:30	20.5000	757.40	66.27	16.50	
04/20	15:03:45	20.7500	776.73	66.19	19.33	
04/20	15:04:00	21.0000	793.38	66.12	16.65	
04/20	15:04:15	21.2500	812.56	66.04	19.18	
04/20	15:04:30	21.5000	831.73	65.97	19.17	
04/20	15:04:45	21.7500	851.94	65.90	20.21	
04/20	15:05:00	22.0000	869.65	65.82	17.70	
04/20	15:05:15	22.2500	887.93	65.75	18.29	
04/20	15:05:30	22.5000	904.60	65.67	16.67	
04/20	15:05:45	22.7500	920.07	65.60	15.47	
04/20	15:06:00	23.0000	934.66	65.52	14.59	
04/20	15:06:15	23.2500	951.02	65.63	16.36	
04/20	15:06:30	23.5000	967.17	65.81	16.15	
04/20	15:06:45	23.7500	980.94	66.00	13.77	
04/20	15:11:00	28.0000	984.58	69.09	3.65	STOP @ 1000'
04/20	15:15:00	32.0000	991.66	70.93	7.08	
04/20	15:15:15	32.2500	1018.70	70.99	27.04	
04/20	15:15:30	32.5000	1043.69	71.20	24.99	
04/20	15:15:45	32.7500	1068.07	71.42	24.39	
04/20	15:16:00	33.0000	1100.91	71.63	32.83	
04/20	15:16:15	33.2500	1141.29	71.84	40.38	
04/20	15:16:30	33.5000	1181.81	72.06	40.52	
04/20	15:16:45	33.7500	1221.90	72.26	40.09	
04/20	15:17:00	34.0000	1262.56	72.47	40.66	
04/20	15:17:15	34.2500	1303.38	72.69	40.82	
04/20	15:17:30	34.5000	1342.13	72.90	38.75	
04/20	15:17:45	34.7500	1382.05	73.11	39.92	
04/20	15:18:00	35.0000	1432.05	73.33	50.00	
04/20	15:18:15	35.2500	1454.27	73.79	22.22	
04/20	15:19:45	36.7500	1451.00	77.10	-3.26	
04/20	15:22:00	39.0000	1446.53	81.73	-4.48	STOP @ 2000
04/20	15:25:00	42.0000	1443.40	85.53	-3.13	
04/20	15:27:00	44.0000	1442.78	86.86	-.61	
04/20	15:28:00	45.0000	1534.68	87.56	91.90	
04/20	15:28:15	45.2500	1561.26	87.71	26.58	
04/20	15:28:30	45.5000	1586.32	88.06	25.07	
04/20	15:28:45	45.7500	1613.30	88.40	26.97	
04/20	15:29:00	46.0000	1644.40	88.75	31.10	
04/20	15:29:15	46.2500	1677.12	89.11	32.72	
04/20	15:29:30	46.5000	1710.14	89.46	33.02	
04/20	15:29:45	46.7500	1740.34	89.81	30.20	
04/20	15:30:00	47.0000	1784.13	90.16	43.79	
04/20	15:30:15	47.2500	1821.12	90.51	36.99	
04/20	15:30:30	47.5000	1855.16	90.86	34.04	

COMPANY: LANCE OIL AND GAS CO., INC.

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WELL NAME : SALTY DOG NO. 4

DATE : 04/25/06

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F220422.RED

Date MM/DD	Time hh:mm:ss	Test Time mmmmmmmm.mmmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
04/20	15:30:45	47.7500	1885.06	91.21	29.90	
04/20	15:31:00	48.0000	1910.69	91.55	25.63	
04/20	15:32:45	49.7500	1910.62	94.63	-.07	
04/20	15:35:00	52.0000	1908.34	97.65	-2.28	
04/20	15:39:45	56.7500	1915.56	100.36	7.22	STOP @ 3000'
04/20	15:40:00	57.0000	1959.66	100.46	44.11	
04/20	15:40:15	57.2500	2006.24	100.45	46.57	
04/20	15:40:30	57.5000	2048.68	100.17	42.44	
04/20	15:40:45	57.7500	2099.99	99.89	51.31	
04/20	15:41:00	58.0000	2144.21	99.61	44.22	
04/20	15:41:15	58.2500	2184.77	99.33	40.56	
04/20	15:41:30	58.5000	2227.26	99.04	42.49	
04/20	15:41:45	58.7500	2270.18	98.77	42.92	
04/20	15:42:00	59.0000	2308.85	98.49	38.67	
04/20	15:42:15	59.2500	2346.50	98.20	37.65	
04/20	15:42:30	59.5000	2385.32	97.93	38.82	
04/20	15:46:30	63.5000	2396.74	94.91	11.42	
04/20	15:50:00	67.0000	2397.63	94.05	.89	STOP @ 4000'
04/20	15:51:00	68.0000	2419.61	93.91	21.98	
04/20	15:51:15	68.2500	2438.55	93.88	18.94	
04/20	15:56:30	73.5000	2446.70	93.39	8.15	TANDEM ELECTRONIC INST. @ 4100'
04/20	16:02:00	79.0000	2446.84	93.19	.14	
04/20	16:08:00	85.0000	2447.00	93.10	.17	
04/20	16:14:00	91.0000	2446.98	93.09	-.02	
04/20	16:20:00	97.0000	2446.98	93.10	.00	
04/20	16:26:00	103.0000	2446.92	93.10	-.07	
04/20	16:32:00	109.0000	2446.91	93.12	-.00	
04/20	16:38:00	115.0000	2446.90	93.12	-.02	
04/20	16:44:00	121.0000	2446.88	93.15	-.02	
04/20	16:50:00	127.0000	2446.82	93.15	-.06	
04/20	16:56:00	133.0000	2446.78	93.16	-.04	
04/20	17:02:00	139.0000	2446.75	93.17	-.03	
04/20	17:08:00	145.0000	2446.72	93.17	-.02	
04/20	17:14:00	151.0000	2446.70	93.17	-.02	
04/20	17:20:00	157.0000	2446.66	93.17	-.04	
04/20	17:26:00	163.0000	2446.64	93.17	-.02	
04/20	17:32:00	169.0000	2446.61	93.17	-.03	
04/20	17:38:00	175.0000	2446.57	93.17	-.04	
04/20	17:44:00	181.0000	2446.57	93.17	.00	
04/20	17:50:00	187.0000	2446.54	93.18	-.03	
04/20	17:56:00	193.0000	2446.53	93.19	-.01	
04/20	18:02:00	199.0000	2446.46	93.19	-.06	
04/20	18:08:00	205.0000	2446.48	93.19	.02	
04/20	18:14:00	211.0000	2446.44	93.19	-.05	
04/20	18:20:00	217.0000	2446.37	93.20	-.06	
04/20	18:26:00	223.0000	2446.39	93.21	.01	
04/20	18:32:00	229.0000	2446.39	93.22	.00	
04/20	18:38:00	235.0000	2446.28	93.22	-.11	
04/20	18:44:00	241.0000	2446.25	93.22	-.03	
04/20	18:50:00	247.0000	2446.25	93.23	.00	
04/20	18:56:00	253.0000	2446.25	93.23	.00	
04/20	19:02:00	259.0000	2446.24	93.23	-.02	
04/20	19:08:00	265.0000	2446.24	93.25	.00	
04/20	19:14:00	271.0000	2446.22	93.25	-.02	
04/20	19:20:00	277.0000	2446.17	93.26	-.05	
04/20	19:26:00	283.0000	2446.11	93.26	-.07	
04/20	19:32:00	289.0000	2446.10	93.27	-.01	
04/20	19:38:00	295.0000	2446.07	93.28	-.03	
04/20	19:44:00	301.0000	2446.03	93.29	-.04	
04/20	19:50:00	307.0000	2445.98	93.29	-.05	
04/20	19:56:00	313.0000	2445.98	93.29	-.00	
04/20	20:02:00	319.0000	2445.93	93.31	-.05	
04/20	20:08:00	325.0000	2445.90	93.31	-.03	
04/20	20:14:00	331.0000	2445.88	93.32	-.02	
04/20	20:20:00	337.0000	2445.85	93.32	-.02	

COMPANY: LANCE OIL AND GAS CO., INC.

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WELL NAME : SALTY DOG NO. 4

DATE : 04/25/06

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F220422.REB

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
04/20	20:26:00	343.0000	2445.82	93.33	-.03	
04/20	20:32:00	349.0000	2445.79	93.33	-.03	
04/20	20:38:00	355.0000	2445.77	93.34	-.02	
04/20	20:44:00	361.0000	2445.74	93.35	-.03	
04/20	20:50:00	367.0000	2445.71	93.36	-.03	
04/20	20:56:00	373.0000	2445.70	93.36	-.01	
04/20	21:02:00	379.0000	2445.67	93.37	-.02	
04/20	21:08:00	385.0000	2445.64	93.37	-.04	
04/20	21:14:00	391.0000	2445.63	93.38	-.01	
04/20	21:20:00	397.0000	2445.59	93.38	-.04	
04/20	21:26:00	403.0000	2445.54	93.39	-.05	
04/20	21:32:00	409.0000	2445.53	93.39	-.01	
04/20	21:38:00	415.0000	2445.55	93.40	.02	
04/20	21:44:00	421.0000	2445.51	93.41	-.04	
04/20	21:50:00	427.0000	2445.49	93.41	-.02	
04/20	21:56:00	433.0000	2445.48	93.42	-.01	
04/20	22:02:00	439.0000	2445.43	93.43	-.05	
04/20	22:08:00	445.0000	2445.40	93.43	-.03	
04/20	22:14:00	451.0000	2445.41	93.44	.00	
04/20	22:20:00	457.0000	2445.33	93.44	-.08	
04/20	22:26:00	463.0000	2445.32	93.45	-.01	
04/20	22:32:00	469.0000	2445.28	93.46	-.04	
04/20	22:38:00	475.0000	2445.28	93.46	.00	
04/20	22:44:00	481.0000	2445.26	93.46	-.02	
04/20	22:50:00	487.0000	2445.24	93.47	-.02	
04/20	22:56:00	493.0000	2445.21	93.47	-.03	
04/20	23:02:00	499.0000	2445.19	93.48	-.02	
04/20	23:08:00	505.0000	2445.10	93.49	-.08	
04/20	23:14:00	511.0000	2445.09	93.49	-.01	
04/20	23:20:00	517.0000	2445.07	93.50	-.01	
04/20	23:26:00	523.0000	2445.10	93.50	.03	
04/20	23:32:00	529.0000	2445.07	93.51	-.03	
04/20	23:38:00	535.0000	2445.03	93.52	-.04	
04/20	23:44:00	541.0000	2445.02	93.51	-.01	
04/20	23:50:00	547.0000	2444.99	93.52	-.03	
04/20	23:56:00	553.0000	2444.95	93.54	-.04	
04/21	00:02:00	559.0000	2444.92	93.54	-.03	
04/21	00:08:00	565.0000	2444.88	93.55	-.03	
04/21	00:14:00	571.0000	2444.88	93.56	-.01	
04/21	00:20:00	577.0000	2444.89	93.56	.01	
04/21	00:26:00	583.0000	2444.85	93.57	-.04	
04/21	00:32:00	589.0000	2444.81	93.57	-.04	
04/21	00:38:00	595.0000	2444.80	93.57	-.01	
04/21	00:44:00	601.0000	2444.76	93.58	-.04	
04/21	00:50:00	607.0000	2444.71	93.59	-.06	
04/21	00:56:00	613.0000	2444.66	93.60	-.05	
04/21	01:02:00	619.0000	2444.64	93.60	-.02	
04/21	01:08:00	625.0000	2444.64	93.60	.00	
04/21	01:14:00	631.0000	2444.64	93.61	.00	
04/21	01:20:00	637.0000	2444.65	93.61	.01	
04/21	01:26:00	643.0000	2444.57	93.62	-.08	
04/21	01:32:00	649.0000	2444.58	93.63	.01	
04/21	01:38:00	655.0000	2444.55	93.63	-.03	
04/21	01:44:00	661.0000	2444.51	93.64	-.03	
04/21	01:50:00	667.0000	2444.48	93.64	-.03	
04/21	01:56:00	673.0000	2444.45	93.65	-.04	
04/21	02:02:00	679.0000	2444.43	93.66	-.02	
04/21	02:08:00	685.0000	2444.41	93.66	-.02	
04/21	02:14:00	691.0000	2444.37	93.67	-.04	
04/21	02:20:00	697.0000	2444.36	93.67	-.01	
04/21	02:26:00	703.0000	2444.32	93.68	-.04	
04/21	02:32:00	709.0000	2444.28	93.67	-.04	
04/21	02:38:00	715.0000	2444.28	93.69	.00	
04/21	02:44:00	721.0000	2444.25	93.70	-.03	
04/21	02:50:00	727.0000	2444.21	93.69	-.04	

COMPANY: LANCE OIL AND GAS CO., INC.

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WELL NAME : SALTY DOG NO. 4

DATE : 04/25/06

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F220422.RED

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
04/21	02:56:00	733.0000	2444.21	93.70	.00	
04/21	03:02:00	739.0000	2444.16	93.71	-.04	
04/21	03:08:00	745.0000	2444.13	93.72	-.03	
04/21	03:14:00	751.0000	2444.13	93.72	.00	
04/21	03:20:00	757.0000	2444.11	93.72	-.01	
04/21	03:26:00	763.0000	2444.07	93.73	-.04	
04/21	03:32:00	769.0000	2444.01	93.74	-.06	
04/21	03:38:00	775.0000	2443.99	93.74	-.02	
04/21	03:44:00	781.0000	2444.00	93.75	.01	
04/21	03:50:00	787.0000	2443.99	93.75	-.01	
04/21	03:56:00	793.0000	2443.90	93.76	-.09	
04/21	04:02:00	799.0000	2443.90	93.76	.00	
04/21	04:08:00	805.0000	2443.87	93.77	-.03	
04/21	04:14:00	811.0000	2443.83	93.77	-.04	
04/21	04:20:00	817.0000	2443.82	93.78	-.01	
04/21	04:26:00	823.0000	2443.80	93.79	-.02	
04/21	04:32:00	829.0000	2443.76	93.79	-.04	
04/21	04:38:00	835.0000	2443.74	93.79	-.02	
04/21	04:44:00	841.0000	2443.71	93.80	-.03	
04/21	04:50:00	847.0000	2443.66	93.80	-.04	
04/21	04:56:00	853.0000	2443.62	93.81	-.04	
04/21	05:02:00	859.0000	2443.59	93.82	-.04	
04/21	05:08:00	865.0000	2443.60	93.82	.02	
04/21	05:14:00	871.0000	2443.60	93.82	-.00	
04/21	05:20:00	877.0000	2443.50	93.83	-.10	
04/21	05:26:00	883.0000	2443.49	93.83	-.02	
04/21	05:32:00	889.0000	2443.47	93.84	-.02	
04/21	05:38:00	895.0000	2443.45	93.84	-.03	
04/21	05:44:00	901.0000	2443.33	93.85	-.12	
04/21	05:50:00	907.0000	2443.36	93.85	.04	
04/21	05:56:00	913.0000	2443.37	93.86	.01	
04/21	06:02:00	919.0000	2443.35	93.86	-.02	
04/21	06:08:00	925.0000	2443.31	93.87	-.04	
04/21	06:14:00	931.0000	2443.30	93.87	-.02	
04/21	06:20:00	937.0000	2443.30	93.88	.00	
04/21	06:26:00	943.0000	2443.25	93.89	-.05	
04/21	06:32:00	949.0000	2443.20	93.90	-.05	
04/21	06:38:00	955.0000	2443.18	93.90	-.02	
04/21	06:44:00	961.0000	2443.14	93.90	-.04	
04/21	06:50:00	967.0000	2443.11	93.91	-.03	
04/21	06:56:00	973.0000	2443.08	93.91	-.02	
04/21	07:02:00	979.0000	2443.04	93.92	-.05	
04/21	07:08:00	985.0000	2443.00	93.93	-.04	
04/21	07:14:00	991.0000	2442.99	93.93	-.01	
04/21	07:20:00	997.0000	2442.99	93.94	.00	
04/21	07:26:00	1003.0000	2442.94	93.94	-.05	
04/21	07:32:00	1009.0000	2442.92	93.94	-.02	
04/21	07:38:00	1015.0000	2442.91	93.95	-.02	
04/21	07:44:00	1021.0000	2442.86	93.96	-.04	
04/21	07:50:00	1027.0000	2442.88	93.96	.01	
04/21	07:56:00	1033.0000	2442.76	93.98	-.12	
04/21	08:02:00	1039.0000	2442.72	93.98	-.04	
04/21	08:08:00	1045.0000	2442.72	93.98	.00	
04/21	08:14:00	1051.0000	2442.72	93.99	.00	
04/21	08:20:00	1057.0000	2442.68	94.00	-.04	
04/21	08:26:00	1063.0000	2442.65	94.00	-.03	
04/21	08:32:00	1069.0000	2442.65	94.00	.00	
04/21	08:38:00	1075.0000	2442.64	94.00	-.02	
04/21	08:44:00	1081.0000	2442.60	94.01	-.04	
04/21	08:50:00	1087.0000	2442.57	94.02	-.03	
04/21	08:56:00	1093.0000	2442.54	94.02	-.03	
04/21	09:02:00	1099.0000	2442.50	94.02	-.03	
04/21	09:08:00	1105.0000	2442.50	94.03	-.01	
04/21	09:14:00	1111.0000	2442.47	94.04	-.03	
04/21	09:20:00	1117.0000	2442.43	94.04	-.04	

COMPANY: LANCE OIL AND GAS CO., INC.

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WELL NAME : SALTY DOG NO. 4

DATE : 04/25/06

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F220422.RED

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
04/21	09:26:00	1123.0000	2442.40	94.04	-.03	
04/21	09:32:00	1129.0000	2442.38	94.05	-.03	
04/21	09:38:00	1135.0000	2442.35	94.05	-.02	
04/21	09:44:00	1141.0000	2442.34	94.07	-.02	KEY PRESSURE TESTED LINE TO 5300 PSIG
04/21	09:49:15	1146.2500	2443.51	94.09	1.17	
04/21	09:55:00	1152.0000	2442.86	94.14	-.65	
04/21	10:01:00	1158.0000	2442.66	94.14	-.20	
04/21	10:07:00	1164.0000	2442.58	94.12	-.08	START - 0.25 BPM
04/21	10:12:15	1169.2500	2445.03	94.12	2.45	
04/21	10:18:00	1175.0000	2445.91	94.13	.88	
04/21	10:24:00	1181.0000	2447.04	94.00	1.13	
04/21	10:30:00	1187.0000	2447.56	93.78	.52	
04/21	10:36:00	1193.0000	2447.94	93.59	.38	
04/21	10:42:00	1199.0000	2448.01	93.41	.07	
04/21	10:47:15	1204.2500	2450.05	93.32	2.04	START - 0.75 BPM
04/21	10:53:00	1210.0000	2450.56	93.28	.50	
04/21	10:59:00	1216.0000	2450.48	93.63	-.08	
04/21	11:05:00	1222.0000	2450.02	94.24	-.46	
04/21	11:11:00	1228.0000	2449.63	94.81	-.38	
04/21	11:16:15	1233.2500	2451.06	95.21	1.43	START - 1.25 BPM
04/21	11:21:30	1238.5000	2451.83	95.59	.76	
04/21	11:27:00	1244.0000	2452.77	95.86	.94	
04/21	11:33:00	1250.0000	2454.18	95.67	1.41	
04/21	11:39:00	1256.0000	2455.63	94.96	1.45	
04/21	11:45:00	1262.0000	2457.45	94.07	1.82	
04/21	11:50:15	1267.2500	2461.40	93.08	3.95	START - 1.75 BPM
04/21	11:55:30	1272.5000	2463.91	91.86	2.51	
04/21	12:01:00	1278.0000	2466.70	90.66	2.79	
04/21	12:07:00	1284.0000	2469.15	89.54	2.45	
04/21	12:13:00	1290.0000	2471.18	88.50	2.03	
04/21	12:18:15	1295.2500	2476.32	87.52	5.14	START - 2.25 BPM
04/21	12:23:30	1300.5000	2480.23	86.29	3.91	
04/21	12:28:45	1305.7500	2483.73	85.01	3.50	
04/21	12:34:00	1311.0000	2486.64	83.86	2.91	
04/21	12:40:00	1317.0000	2489.92	82.58	3.28	
04/21	12:46:00	1323.0000	2493.58	81.58	3.66	
04/21	12:51:15	1328.2500	2497.28	80.74	3.69	
04/21	12:56:30	1333.5000	2500.33	79.89	3.05	START - 2.75 BPM
04/21	13:02:00	1339.0000	2503.09	79.10	2.76	
04/21	13:08:00	1345.0000	2505.82	78.33	2.73	
04/21	13:14:00	1351.0000	2508.07	77.76	2.25	
04/21	13:19:15	1356.2500	2512.73	77.34	4.67	START - 3.25 BPM
04/21	13:24:30	1361.5000	2515.90	76.84	3.17	
04/21	13:29:45	1366.7500	2518.65	76.37	2.75	
04/21	13:35:00	1372.0000	2521.08	75.97	2.43	
04/21	13:41:00	1378.0000	2523.42	75.59	2.34	
04/21	13:46:15	1383.2500	2526.70	75.31	3.28	START - 3.75 BPM
04/21	13:51:30	1388.5000	2529.65	75.09	2.95	
04/21	13:56:45	1393.7500	2532.11	74.89	2.46	
04/21	14:02:00	1399.0000	2534.46	74.75	2.35	
04/21	14:07:15	1404.2500	2536.38	74.64	1.91	
04/21	14:13:00	1410.0000	2538.31	74.57	1.93	
04/21	14:18:15	1415.2500	2541.73	74.52	3.42	START - 4.25 BPM
04/21	14:23:30	1420.5000	2544.54	74.40	2.81	
04/21	14:28:45	1425.7500	2546.79	74.25	2.25	
04/21	14:34:00	1431.0000	2548.69	74.09	1.89	
04/21	14:40:00	1437.0000	2551.12	73.91	2.43	
04/21	14:46:00	1443.0000	2554.46	73.78	3.34	START - 4.75 BPM
04/21	14:51:15	1448.2500	2557.33	73.66	2.87	
04/21	14:56:30	1453.5000	2559.67	73.51	2.34	
04/21	15:01:45	1458.7500	2561.83	73.43	2.17	
04/21	15:07:00	1464.0000	2563.67	73.40	1.83	
04/21	15:13:00	1470.0000	2565.45	73.40	1.78	
04/21	15:18:15	1475.2500	2568.93	73.45	3.48	START - 5.25 BPM
04/21	15:23:30	1480.5000	2571.34	73.49	2.41	

COMPANY: LANCE OIL AND GAS CO., INC.

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WELL NAME : SALTY DOG NO. 4

DATE : 04/25/06

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F220422.RED

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
04/21	15:28:45	1485.7500	2573.46	73.53	2.13	
04/21	15:34:00	1491.0000	2575.32	73.58	1.86	
04/21	15:40:00	1497.0000	2577.06	73.69	1.74	
04/21	15:46:00	1503.0000	2579.17	73.80	2.11	START - 5.75 BPM
04/21	15:52:00	1509.0000	2582.22	73.87	3.05	
04/21	15:58:00	1515.0000	2583.89	73.89	1.67	
04/21	16:04:00	1521.0000	2585.72	73.83	1.83	
04/21	16:10:00	1527.0000	2587.81	73.46	2.10	
04/21	16:16:00	1533.0000	2591.22	72.84	3.40	START - 6.25 BPM
04/21	16:21:15	1538.2500	2594.71	72.35	3.49	
04/21	16:26:30	1543.5000	2597.44	71.91	2.74	
04/21	16:31:45	1548.7500	2599.29	71.57	1.84	
04/21	16:37:00	1554.0000	2601.13	71.33	1.85	
04/21	16:43:00	1560.0000	2602.92	71.15	1.78	
04/21	16:48:15	1565.2500	2605.74	71.08	2.83	START - 6.75 BPM
04/21	16:53:30	1570.5000	2607.66	71.08	1.91	
04/21	16:59:00	1576.0000	2608.81	71.56	1.16	
04/21	17:05:00	1582.0000	2610.63	71.71	1.82	
04/21	17:11:00	1588.0000	2611.61	71.80	.98	
04/21	17:17:00	1594.0000	2613.51	72.04	1.90	START - 7.25 BPM
04/21	17:23:00	1600.0000	2616.08	72.25	2.57	
04/21	17:29:00	1606.0000	2617.91	72.47	1.82	
04/21	17:35:00	1612.0000	2619.21	72.65	1.30	
04/21	17:41:00	1618.0000	2620.67	72.79	1.46	
04/21	17:46:15	1623.2500	2622.62	72.92	1.95	START - 7.75 BPM
04/21	17:51:30	1628.5000	2624.31	73.07	1.69	
04/21	17:57:00	1634.0000	2626.13	73.25	1.82	
04/21	18:03:00	1640.0000	2627.30	73.50	1.17	
04/21	18:09:00	1646.0000	2628.32	73.67	1.02	
04/21	18:15:00	1652.0000	2629.25	73.77	.93	START - 8.25 BPM
04/21	18:20:15	1657.2500	2631.67	73.82	2.42	
04/21	18:25:30	1662.5000	2633.06	73.89	1.39	
04/21	18:31:00	1668.0000	2634.32	74.02	1.26	
04/21	18:37:00	1674.0000	2635.75	74.10	1.42	
04/21	18:43:00	1680.0000	2636.95	74.17	1.21	
04/21	18:46:30	1683.5000	2624.54	74.22	-12.41	PUMPS SHUT DOWN
04/21	18:46:45	1683.7500	2623.41	74.24	-1.13	FALL-OFF TEST
04/21	18:50:15	1687.2500	2610.73	74.79	-12.68	
04/21	18:50:30	1687.5000	2609.97	74.87	-.76	
04/21	18:55:00	1692.0000	2597.21	77.02	-12.76	
04/21	18:55:15	1692.2500	2596.58	77.17	-.63	
04/21	19:00:30	1697.5000	2584.52	80.03	-12.07	
04/21	19:05:45	1702.7500	2575.22	82.14	-9.29	
04/21	19:11:00	1708.0000	2567.58	83.70	-7.64	
04/21	19:16:15	1713.2500	2560.89	84.88	-6.69	
04/21	19:21:30	1718.5000	2555.16	85.77	-5.73	
04/21	19:26:45	1723.7500	2550.15	86.47	-5.01	
04/21	19:32:00	1729.0000	2545.56	87.03	-4.59	
04/21	19:37:15	1734.2500	2541.49	87.53	-4.07	
04/21	19:42:30	1739.5000	2537.81	87.94	-3.68	
04/21	19:47:45	1744.7500	2534.22	88.30	-3.59	
04/21	19:53:00	1750.0000	2531.26	88.63	-2.96	
04/21	19:58:15	1755.2500	2528.21	88.93	-3.05	
04/21	20:03:30	1760.5000	2525.30	89.20	-2.90	
04/21	20:08:45	1765.7500	2522.61	89.44	-2.69	
04/21	20:14:00	1771.0000	2520.21	89.67	-2.40	
04/21	20:19:15	1776.2500	2517.85	89.88	-2.36	
04/21	20:24:30	1781.5000	2515.60	90.08	-2.25	
04/21	20:29:45	1786.7500	2513.43	90.28	-2.16	
04/21	20:35:00	1792.0000	2511.16	90.44	-2.27	
04/21	20:41:00	1798.0000	2508.87	90.63	-2.29	
04/21	20:47:00	1804.0000	2506.97	90.79	-1.90	
04/21	20:53:00	1810.0000	2505.04	90.96	-1.93	
04/21	20:59:00	1816.0000	2503.11	91.11	-1.94	
04/21	21:05:00	1822.0000	2501.19	91.26	-1.92	

COMPANY: LANCE OIL AND GAS CO., INC.

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WELL NAME : SALTY DOG NO. 4

DATE : 04/25/06

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F220422.RED

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
04/21	21:11:00	1828.0000	2499.45	91.40	-1.75	
04/21	21:17:00	1834.0000	2497.49	91.54	-1.96	
04/21	21:23:00	1840.0000	2496.08	91.67	-1.41	
04/21	21:29:00	1846.0000	2494.61	91.78	-1.48	
04/21	21:35:00	1852.0000	2493.05	91.89	-1.56	
04/21	21:41:00	1858.0000	2491.55	92.01	-1.50	
04/21	21:47:00	1864.0000	2490.24	92.11	-1.31	
04/21	21:53:00	1870.0000	2488.85	92.22	-1.39	
04/21	21:59:00	1876.0000	2487.64	92.32	-1.21	
04/21	22:05:00	1882.0000	2486.37	92.40	-1.27	
04/21	22:11:00	1888.0000	2485.15	92.50	-1.22	
04/21	22:17:00	1894.0000	2484.07	92.58	-1.08	
04/21	22:23:00	1900.0000	2482.98	92.65	-1.09	
04/21	22:29:00	1906.0000	2481.87	92.72	-1.11	
04/21	22:35:00	1912.0000	2480.88	92.80	-.99	
04/21	22:41:00	1918.0000	2479.87	92.86	-1.01	
04/21	22:47:00	1924.0000	2478.96	92.93	-.92	
04/21	22:53:00	1930.0000	2478.20	93.00	-.76	
04/21	22:59:00	1936.0000	2477.24	93.05	-.96	
04/21	23:05:00	1942.0000	2476.45	93.12	-.79	
04/21	23:11:00	1948.0000	2475.52	93.17	-.93	
04/21	23:17:00	1954.0000	2474.77	93.22	-.75	
04/21	23:23:00	1960.0000	2474.10	93.27	-.67	
04/21	23:29:00	1966.0000	2473.30	93.32	-.80	
04/21	23:35:00	1972.0000	2472.59	93.37	-.71	
04/21	23:41:00	1978.0000	2472.07	93.41	-.52	
04/21	23:47:00	1984.0000	2471.32	93.46	-.75	
04/21	23:53:00	1990.0000	2470.80	93.50	-.52	
04/21	23:59:00	1996.0000	2470.20	93.53	-.60	
04/22	00:05:00	2002.0000	2469.61	93.57	-.59	
04/22	00:11:00	2008.0000	2469.06	93.60	-.55	
04/22	00:17:00	2014.0000	2468.55	93.63	-.51	
04/22	00:23:00	2020.0000	2468.03	93.67	-.52	
04/22	00:29:00	2026.0000	2467.55	93.69	-.48	
04/22	00:35:00	2032.0000	2467.10	93.71	-.44	
04/22	00:41:00	2038.0000	2466.59	93.74	-.51	
04/22	00:47:00	2044.0000	2466.19	93.76	-.41	
04/22	00:53:00	2050.0000	2465.77	93.79	-.42	
04/22	00:59:00	2056.0000	2465.41	93.81	-.36	
04/22	01:05:00	2062.0000	2465.07	93.84	-.34	
04/22	01:11:00	2068.0000	2464.68	93.86	-.39	
04/22	01:17:00	2074.0000	2464.37	93.88	-.31	
04/22	01:23:00	2080.0000	2464.00	93.92	-.37	
04/22	01:29:00	2086.0000	2463.74	93.93	-.26	
04/22	01:35:00	2092.0000	2463.47	93.95	-.27	
04/22	01:41:00	2098.0000	2463.19	93.98	-.28	
04/22	01:47:00	2104.0000	2462.98	93.99	-.20	
04/22	01:53:00	2110.0000	2462.79	94.01	-.20	
04/22	01:59:00	2116.0000	2462.60	94.03	-.19	
04/22	02:05:00	2122.0000	2462.47	94.04	-.14	
04/22	02:11:00	2128.0000	2462.35	94.06	-.11	
04/22	02:17:00	2134.0000	2462.23	94.07	-.12	
04/22	02:23:00	2140.0000	2462.10	94.09	-.13	
04/22	02:29:00	2146.0000	2461.97	94.10	-.13	
04/22	02:35:00	2152.0000	2461.90	94.12	-.07	
04/22	02:41:00	2158.0000	2461.73	94.14	-.17	
04/22	02:47:00	2164.0000	2461.56	94.17	-.18	
04/22	02:53:00	2170.0000	2461.41	94.19	-.15	
04/22	02:59:00	2176.0000	2461.29	94.22	-.12	
04/22	03:05:00	2182.0000	2461.18	94.24	-.12	
04/22	03:11:00	2188.0000	2461.03	94.24	-.14	
04/22	03:17:00	2194.0000	2460.87	94.26	-.16	
04/22	03:23:00	2200.0000	2460.72	94.29	-.16	
04/22	03:29:00	2206.0000	2460.56	94.30	-.15	
04/22	03:35:00	2212.0000	2460.52	94.33	-.04	

COMPANY: LANCE OIL AND GAS CO., INC.

PAGE 8 OF 10

WELL NAME : SALTY DOG NO. 4

DATE : 04/25/06

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F220422.RED

Date MM/DD	Time hh:mm:ss	Test Time mmmmmmmm.mmmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
04/22	03:41:00	2218.0000	2460.45	94.33	-.08	
04/22	03:47:00	2224.0000	2460.26	94.35	-.19	
04/22	03:53:00	2230.0000	2460.13	94.35	-.13	
04/22	03:59:00	2236.0000	2459.99	94.38	-.15	
04/22	04:05:00	2242.0000	2459.90	94.38	-.09	
04/22	04:11:00	2248.0000	2459.76	94.39	-.13	
04/22	04:17:00	2254.0000	2459.72	94.40	-.04	
04/22	04:23:00	2260.0000	2459.59	94.41	-.13	
04/22	04:29:00	2266.0000	2459.45	94.41	-.14	
04/22	04:35:00	2272.0000	2459.36	94.43	-.08	
04/22	04:41:00	2278.0000	2459.34	94.43	-.02	
04/22	04:47:00	2284.0000	2459.20	94.44	-.15	
04/22	04:53:00	2290.0000	2459.09	94.44	-.11	
04/22	04:59:00	2296.0000	2459.05	94.44	-.03	
04/22	05:05:00	2302.0000	2458.96	94.43	-.09	
04/22	05:11:00	2308.0000	2458.88	94.43	-.08	
04/22	05:17:00	2314.0000	2458.79	94.41	-.09	
04/22	05:23:00	2320.0000	2458.77	94.42	-.03	
04/22	05:29:00	2326.0000	2458.61	94.41	-.15	
04/22	05:35:00	2332.0000	2458.61	94.39	-.00	
04/22	05:41:00	2338.0000	2458.50	94.38	-.11	
04/22	05:47:00	2344.0000	2458.48	94.35	-.02	
04/22	05:53:00	2350.0000	2458.43	94.36	-.05	
04/22	05:59:00	2356.0000	2458.26	94.37	-.17	
04/22	06:05:00	2362.0000	2458.21	94.35	-.05	
04/22	06:11:00	2368.0000	2458.10	94.33	-.11	
04/22	06:17:00	2374.0000	2458.06	94.34	-.04	
04/22	06:23:00	2380.0000	2457.92	94.33	-.14	
04/22	06:29:00	2386.0000	2457.88	94.34	-.05	
04/22	06:35:00	2392.0000	2457.74	94.33	-.13	
04/22	06:41:00	2398.0000	2457.70	94.33	-.04	
04/22	06:47:00	2404.0000	2457.66	94.32	-.04	
04/22	06:53:00	2410.0000	2457.60	94.31	-.06	
04/22	06:59:00	2416.0000	2457.48	94.29	-.12	
04/22	07:05:00	2422.0000	2457.42	94.29	-.06	
04/22	07:11:00	2428.0000	2457.30	94.28	-.11	
04/22	07:17:00	2434.0000	2457.23	94.25	-.08	
04/22	07:23:00	2440.0000	2457.16	94.24	-.07	
04/22	07:29:00	2446.0000	2457.04	94.22	-.12	
04/22	07:35:00	2452.0000	2457.00	94.20	-.03	
04/22	07:36:00	2453.0000	2423.71	94.19	-33.29	TANDEM ELECTRONIC INST. OFF BOTTOM
04/22	07:36:30	2453.5000	2419.73	94.19	-3.99	
04/22	07:36:45	2453.7500	2408.65	94.19	-11.08	
04/22	07:37:15	2454.2500	2396.97	94.20	-11.68	
04/22	07:37:30	2454.5000	2375.56	94.20	-21.41	
04/22	07:37:45	2454.7500	2351.92	94.21	-23.64	
04/22	07:38:00	2455.0000	2329.03	94.21	-22.89	
04/22	07:38:15	2455.2500	2306.44	94.21	-22.59	
04/22	07:38:30	2455.5000	2283.11	94.21	-23.33	
04/22	07:38:45	2455.7500	2257.27	94.21	-25.84	
04/22	07:39:00	2456.0000	2232.32	94.21	-24.95	
04/22	07:39:15	2456.2500	2207.88	94.15	-24.44	
04/22	07:39:30	2456.5000	2184.31	93.97	-23.57	
04/22	07:39:45	2456.7500	2160.75	93.78	-23.56	
04/22	07:40:00	2457.0000	2137.04	93.59	-23.71	
04/22	07:40:15	2457.2500	2114.50	93.41	-22.54	
04/22	07:40:30	2457.5000	2092.42	93.22	-22.08	
04/22	07:40:45	2457.7500	2071.51	93.03	-20.91	
04/22	07:41:00	2458.0000	2050.60	92.84	-20.91	
04/22	07:41:15	2458.2500	2029.40	92.65	-21.20	
04/22	07:41:30	2458.5000	2007.17	92.46	-22.24	
04/22	07:41:45	2458.7500	1987.14	92.28	-20.02	
04/22	07:42:00	2459.0000	1963.86	92.09	-23.28	
04/22	07:42:15	2459.2500	1940.98	91.81	-22.88	
04/22	07:42:30	2459.5000	1918.80	91.99	-22.18	

COMPANY: LANCE OIL AND GAS CO., INC.

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WELL NAME : SALTY DOG NO. 4

DATE : 04/25/06

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F220422.RED

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
04/22	07:42:45	2459.7500	1897.51	92.16	-21.28	
04/22	07:43:00	2460.0000	1874.60	92.34	-22.91	
04/22	07:43:15	2460.2500	1852.58	92.51	-22.02	
04/22	07:43:30	2460.5000	1832.03	92.69	-20.55	
04/22	07:43:45	2460.7500	1811.20	92.86	-20.83	
04/22	07:44:00	2461.0000	1789.77	93.04	-21.43	
04/22	07:44:15	2461.2500	1768.05	93.22	-21.72	
04/22	07:44:30	2461.5000	1748.26	93.39	-19.79	
04/22	07:44:45	2461.7500	1727.28	93.57	-20.98	
04/22	07:45:00	2462.0000	1708.53	93.74	-18.75	
04/22	07:45:15	2462.2500	1687.67	94.10	-20.86	
04/22	07:45:30	2462.5000	1668.14	94.17	-19.53	
04/22	07:45:45	2462.7500	1647.57	94.24	-20.57	
04/22	07:46:00	2463.0000	1624.35	94.31	-23.22	
04/22	07:46:15	2463.2500	1602.75	94.39	-21.60	
04/22	07:46:30	2463.5000	1581.16	94.46	-21.59	
04/22	07:46:45	2463.7500	1558.67	94.54	-22.49	
04/22	07:47:00	2464.0000	1536.94	94.61	-21.74	
04/22	07:47:15	2464.2500	1516.37	94.69	-20.57	
04/22	07:47:30	2464.5000	1495.96	94.76	-20.41	
04/22	07:47:45	2464.7500	1475.56	94.83	-20.41	
04/22	07:48:00	2465.0000	1455.89	94.90	-19.67	
04/22	07:48:15	2465.2500	1436.73	94.74	-19.16	
04/22	07:48:30	2465.5000	1417.42	94.43	-19.31	
04/22	07:48:45	2465.7500	1395.88	94.13	-21.54	
04/22	07:49:00	2466.0000	1375.09	93.82	-20.79	
04/22	07:49:15	2466.2500	1355.61	93.52	-19.48	
04/22	07:49:30	2466.5000	1334.96	93.21	-20.65	
04/22	07:49:45	2466.7500	1314.60	92.91	-20.36	
04/22	07:50:00	2467.0000	1293.80	92.60	-20.80	
04/22	07:50:15	2467.2500	1270.33	92.30	-23.46	
04/22	07:50:30	2467.5000	1248.94	91.99	-21.39	
04/22	07:50:45	2467.7500	1228.13	91.68	-20.81	
04/22	07:51:00	2468.0000	1207.76	91.38	-20.38	
04/22	07:51:15	2468.2500	1188.06	90.98	-19.70	
04/22	07:51:30	2468.5000	1166.38	90.48	-21.68	
04/22	07:51:45	2468.7500	1143.82	89.97	-22.56	
04/22	07:52:00	2469.0000	1120.81	89.47	-23.01	
04/22	07:52:15	2469.2500	1095.58	88.97	-25.23	
04/22	07:52:30	2469.5000	1069.31	88.47	-26.27	
04/22	07:52:45	2469.7500	1044.82	87.96	-24.49	
04/22	07:53:00	2470.0000	1020.31	87.46	-24.51	
04/22	07:53:15	2470.2500	996.54	86.96	-23.77	
04/22	07:53:30	2470.5000	969.66	86.46	-26.88	
04/22	07:53:45	2470.7500	937.47	85.96	-32.19	
04/22	07:54:00	2471.0000	904.24	85.46	-33.23	
04/22	07:54:15	2471.2500	871.24	84.86	-33.01	
04/22	07:54:30	2471.5000	837.41	84.17	-33.83	
04/22	07:54:45	2471.7500	803.12	83.50	-34.29	
04/22	07:55:00	2472.0000	769.27	82.81	-33.84	
04/22	07:55:15	2472.2500	736.73	82.14	-32.54	
04/22	07:55:30	2472.5000	702.42	81.46	-34.31	
04/22	07:55:45	2472.7500	669.88	80.78	-32.55	
04/22	07:56:00	2473.0000	640.57	80.10	-29.31	
04/22	07:56:15	2473.2500	614.06	79.43	-26.51	
04/22	07:56:30	2473.5000	600.40	78.75	-13.66	
04/22	07:56:45	2473.7500	585.98	78.08	-14.41	
04/22	07:57:00	2474.0000	569.80	77.40	-16.18	
04/22	07:57:30	2474.5000	557.25	76.02	-12.55	
04/22	07:57:45	2474.7500	551.11	75.34	-6.14	
04/22	07:58:15	2475.2500	540.31	73.98	-10.80	
04/22	07:58:30	2475.5000	533.42	73.31	-6.89	
04/22	07:59:30	2476.5000	521.68	70.61	-11.73	
04/22	07:59:45	2476.7500	520.13	69.93	-1.55	
04/22	08:00:15	2477.2500	520.41	68.54	.28	

SURFACE PRESSURE - 520 PSIG

COMPANY: LANCE OIL AND GAS CO., INC.

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WELL NAME : SALTY DOG NO. 4

DATE : 04/25/06

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F220422.RED

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
04/22	08:00:30	2477.5000	133.81	67.90	-386.61	
04/22	08:00:45	2477.7500	78.57	67.26	-55.23	
04/22	08:01:00	2478.0000	55.88	66.64	-22.69	
04/22	08:01:15	2478.2500	43.72	66.00	-12.17	
04/22	08:01:30	2478.5000	35.98	65.37	-7.74	
04/22	08:01:45	2478.7500	.01	64.74	-35.97	
04/22	08:03:00	2480.0000	.01	61.59	.00	
04/22	08:05:15	2482.2500	.01	58.50	.00	
04/22	08:10:00	2487.0000	.01	55.21	.00	
04/22	08:16:00	2493.0000	.01	54.68	.00	

 *
 * EVENT SUMMARY *
 *

COMPANY : LANCE OIL AND GAS CO., INC.

PAGE : B1

WELL NAME : SALTY DOG NO. 4

DATE : 04/25/06

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F220422.RED

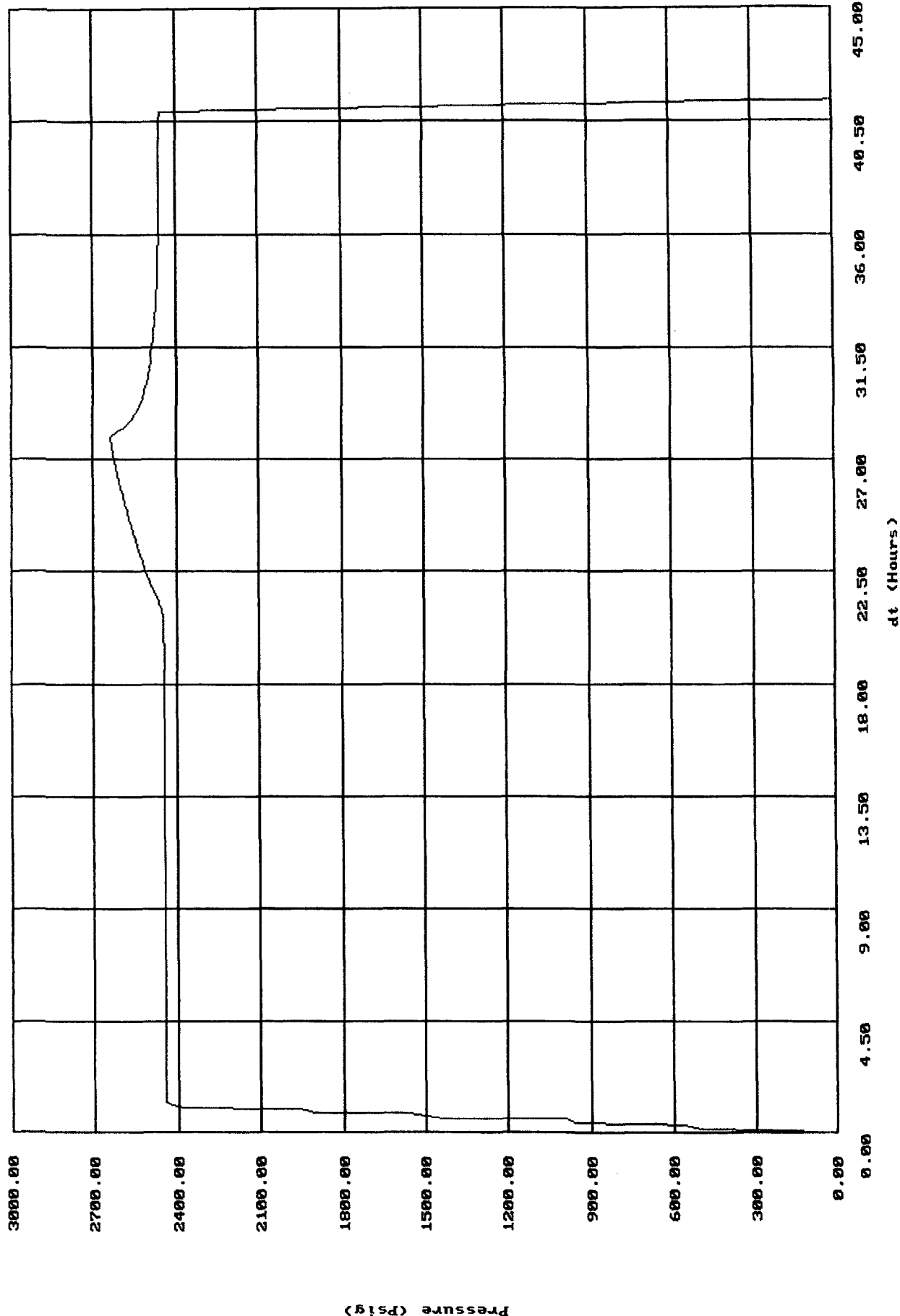
Date	Time	Test Time	Key Event	Pressure	Temp
MM/DD	hh:mm:ss	mmmmmm.mmmmm		Psig	Deg F
04/20	14:51:00	8.0000	PRESSURED UP LUBRICATOR	21.03	75.74
04/20	14:59:00	16.0000	SURFACE STOP	509.75	70.73
04/20	15:11:00	28.0000	STOP @ 1000'	984.58	69.09
04/20	15:22:00	39.0000	STOP @ 2000	1446.53	81.73
04/20	15:39:45	56.7500	STOP @ 3000'	1915.56	100.36
04/20	15:50:00	67.0000	STOP @ 4000'	2397.63	94.05
04/20	15:56:30	73.5000	TANDEM ELECTRONIC INST. @ 4100'	2446.70	93.39
04/21	09:44:00	1141.0000	KEY PRESSURE TESTED LINE TO 5300 PSIG	2442.34	94.07
04/21	10:07:00	1164.0000	START - 0.25 BPM	2442.58	94.12
04/21	10:47:15	1204.2500	START - 0.75 BPM	2450.05	93.32
04/21	11:16:15	1233.2500	START - 1.25 BPM	2451.06	95.21
04/21	11:50:15	1267.2500	START - 1.75 BPM	2461.40	93.08
04/21	12:18:15	1295.2500	START - 2.25 BPM	2476.32	87.52
04/21	12:56:30	1333.5000	START - 2.75 BPM	2500.33	79.89
04/21	13:19:15	1356.2500	START - 3.25 BPM	2512.73	77.34
04/21	13:46:15	1383.2500	START - 3.75 BPM	2526.70	75.31
04/21	14:18:15	1415.2500	START - 4.25 BPM	2541.73	74.52
04/21	14:46:00	1443.0000	START - 4.75 BPM	2554.46	73.78
04/21	15:18:15	1475.2500	START - 5.25 BPM	2568.93	73.45
04/21	15:46:00	1503.0000	START - 5.75 BPM	2579.17	73.80
04/21	16:16:00	1533.0000	START - 6.25 BPM	2591.22	72.84
04/21	16:48:15	1565.2500	START - 6.75 BPM	2605.74	71.08
04/21	17:17:00	1594.0000	START - 7.25 BPM	2613.51	72.04
04/21	17:46:15	1623.2500	START - 7.75 BPM	2622.62	72.92
04/21	18:15:00	1652.0000	START - 8.25 BPM	2629.25	73.77
04/21	18:46:30	1683.5000	PUMPS SHUT DOWN	2624.54	74.22
04/21	18:46:45	1683.7500	FALL-OFF TEST	2623.41	74.24
04/22	07:35:00	2452.0000	TANDEM ELECTRONIC INST. OFF BOTTOM	2457.00	94.20
04/22	08:00:15	2477.2500	SURFACE PRESSURE - 520 PSIG	520.41	68.54

LANCE OIL AND GAS CO., INC.

Pressure vs dt

SALTY DOG NO. 4
SAN JUAN COUNTY, NM
F220422 RED

TEETELLER, INC.
4-20-86
INJECTION AND FALL-OFF TESTS



Company: LANCE OIL AND GAS CO., INC.
Well: SALTY DOG NO. 4
Field: CLIFF HOUSE FORMATION
Engineer: NEIL TEFTELLER
Gauge Type: ELECTRONIC MEMORY
Gauge Range: 0 - 5000
Gauge Depth: 4100 ft
Serial No.: 220

County: SAN JUAN
State: NEW MEXICO
Date: 04/20/2006
Well Type: GAS
Test Type: GRADIENT
Status: SHUT IN
File Name: 59129

Tubing: 2 7/8" TO 3057'
Tubing: TO
Casing: 5 1/2" TO
Perfs.: 3118' - 3209'
Perfs.: 3944' - 4270'

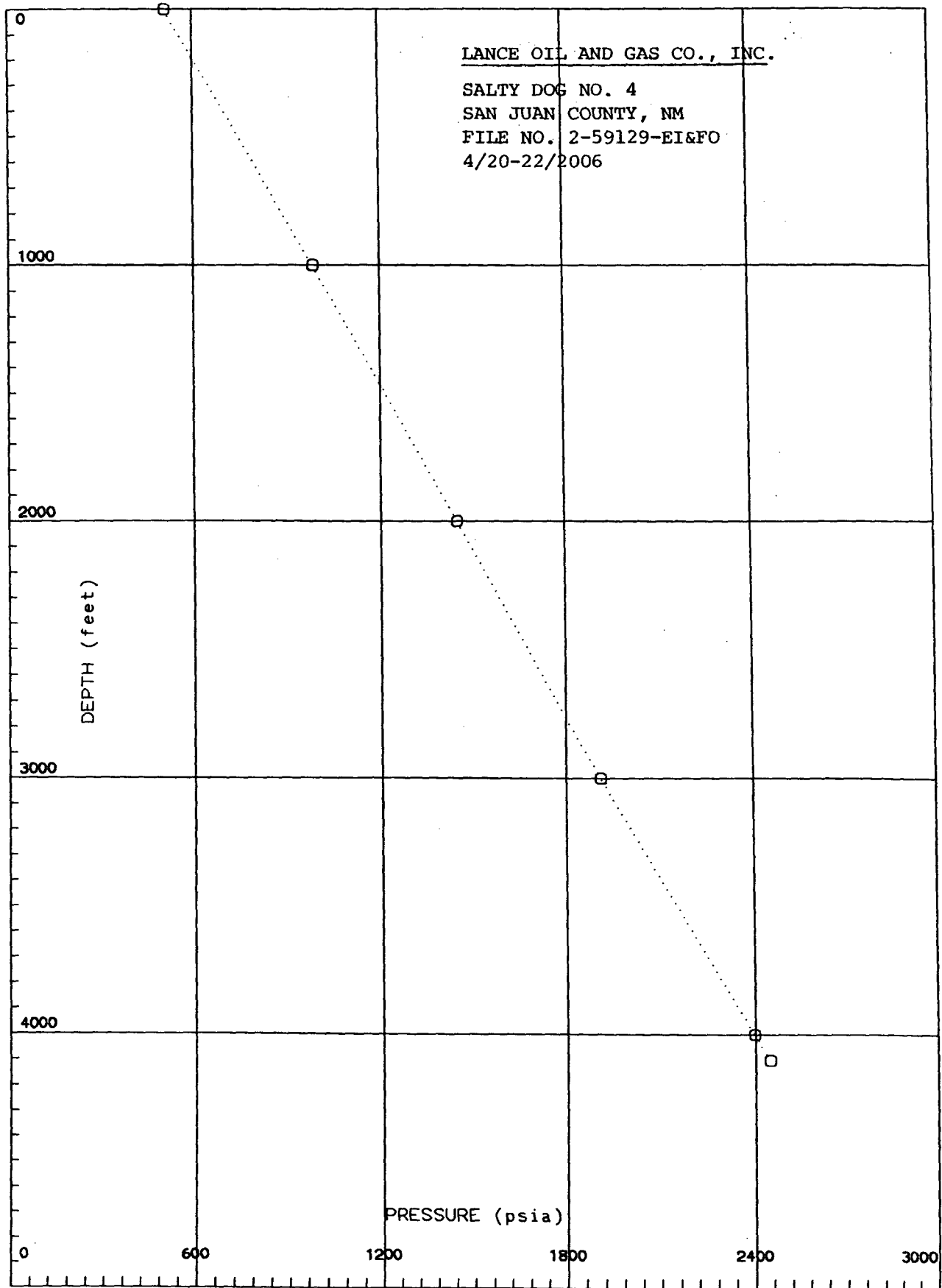
Oil Level
H2O Level

Shut-in BHP 2447 @ 4100 ft Shut-in BHT 93 F @ 4100 ft
Shut-in WHP 510 Shut-in WHT 0 F

[Tefteller Incorporated]

#	MD	TVD	PRESSURE	PSI/ft
1	0	0	510.00	
2	1000	1000	983.00	0.473
3	2000	2000	1450.00	0.467
4	3000	3000	1907.00	0.457
5	4000	4000	2397.00	0.490
6	4100	4100	2447.00	0.500

TOTAL DEPTH - 5300'
WELL SHUT IN - 5 DAYS



KEY ENERGY PRESSURE PUMPING SERVICES



TREATMENT REPORT

Date: April 21, 2008	District: Farmington	Job No: 70088360	Customer: Western Gas Resources Inc.
Well Name: Salty Dog	Lease: #4	Field: MESA VERDE	Location: Sec. 1, T30N, R14W
County: San Juan	State: New Mexico	Stage #: 1 OF 1	

WELL DATA	Formation: Cliff House	TD: 5,300'	PB: 3505'	Other Well Data
Casing Size: 5 1/2" OD	Weight: 15.5#	Set From/To: 0 TO 5300		Valve: Customer Valve
Liner Size: 0 in. OD	Weight: 0 #	Set From/To: N/A		
Tubing Size: 2 7/8" OD	Weight: 8.5#	Set at: 0 TO 4270		
Packer Type: COMPRESSION	Set at: 3057'			
No. of Perfs: 399	Perf Size: 0.42"	Interval: 3118' TO 4270		

TREATMENT DATA	Job Type: ☐ Acid ☐ Frac ☒ Other	Foam (Y/N): NO	Capacities and Ttl Liquid/Gas Pumped
Pad Type: PRODUCED WATER	Pad Volume: 0 bbl		
Base Fluid Type: PRODUCED WATER	Base Fluid Vol.: 3571 bbl		
Foam Quality: NONE	Mitchell or CIP: NONE		Tubing Cap. 21.0 bbl
Prop Types: 0	Prop Mesh: 0	Prop Quantity: N/A	Casing Cap. 0.0 bbl
Treat Via: TUBING	☒ Tubing ☐ Casing ☐ Annulus ☐ Tubing & Annulus		Annular Cap.: 0.0 bbl
Hole Loaded With: PRODUCED WATER			Open Hole Cap.: 0.0 bbl

Procedure Summary	START STEP-RATE TEST. PUMPED 238 GALS PRODUCED WATER @ 0.25 BPM @ 486 PSI. PUMPED 978.6 GALS @ 0.75 BPM @ 490 PSI. PUMPED 1,554 GALS @ 1.25 BPM @ 502 PSI. PUMPED 2,175.8 GALS @ 1.75 BPM @ 532 PSI. PUMPED 2,895.4 GALS @ 2.25 BPM @ 588 PSI. PUMPED 3,444 GALS @ 2.75 BPM @ 618 PSI. PUMPED 4,124.4 GALS @ 3.25 BPM @ 669 PSI. PUMPED 4,849.4 GALS @ 3.75 BPM @ 731 PSI. PUMPED 5,562.8 GALS @ 4.25 BPM @ 807 PSI. PUMPED 6,330.4 GALS @ 4.75 BPM @ 882 PSI. PUMPED 6,940.2 GALS @ 5.25 BPM @ 974 PSI. PUMPED 7,182 GALS @ 5.75 BPM @ 1,040 PSI. PUMPED 7,896 GALS @ 6.25 BPM @ 1,190 PSI. PUMPED 8,442 GALS @ 6.75 BPM @ 1,215 PSI. PUMPED 8,236.8 GALS @ 7.25 BPM @ 1,320 PSI. PUMPED 9,500.4 GALS @ 7.75 BPM @ 1,410 PSI. PUMPED 10,294.2 GALS @ 8.25 BPM @ 1,500 PSI. SHUT-DOWN.	Fluid to load: 1 bbl
		Flush Vol.: 0.0 bbl
		Fluid to Recover: 3583742 bbl
		Total N ₂ : 0.0 bbl

Time	Treating Pressure (psi)		Fluid Rate	Surface Slurry BBLs Pumped		Total DH Rate	Surface N2 RATE	Surface N ₂ Pumped		Comments
AM/PM	STP	Annulus	BPM	Stage	Total	BPM	SCF/MIN	Stage - scf	Total - scf	
9:15					0	0.00	0	0		HOLD SAFETY MEETING
9:41	5,300				0	0.00	0	0		PRESSURE TEST LINES
10:05	486		0.25	8	0	0.25	0	0		START 0.25 BPM
10:44	490		0.75	23.3	31.3	0.75	0	0		START 0.75 BPM
11:15	509		1.25	37	68.3	1.25	0	0		START 1.25 BPM
11:45	532		1.75	51.9	120	1.75	0	0		START 1.75 BPM
12:14	586		2.25	68.7	189	2.25	0	0		START 2.25 BPM
12:44	618		2.75	92	189	2.75	0	0		START 2.75 BPM
1:14	669		3.25	98	288.9	3.25	0	0		START 3.25 BPM
1:44	731		3.75	110.7	397.6	3.75	0	0	0	START 3.75 BPM
2:14	807		4.25	125.3	622.9	4.25	0	0	0	START 4.25 BPM
2:44	882		4.75	141.2	984.1	4.75	0	0	0	START 4.75 BPM
3:14	974		5.25	158.1	822.2	5.25	0	0	0	START 5.25 BPM
3:44	1,040		5.75	171	993.2	5.75	0	0	0	START 5.75 BPM
4:14	1,190		6.25	188	1181.2	6.25	0	0	0	START 6.25 BPM
4:44	1,215		6.75	201	1382.2	6.75	0	0	0	START 6.75 BPM
5:14	1,320		7.25	218.9	1602.1	7.25	0	0	0	START 7.25 BPM
5:44	1,410		7.75	228.2	1828.3	7.75	0	0	0	START 7.75 BPM
6:14	1,500		8.25	245.1	2073.4	8.25	0	0	0	START 8.25 BPM
6:44	656		0.0	245.1	2318.5	0.00	0	0	0	SHUT DOWN
					2318.5	0.00	0	0	0	
					2318.5	0.00	0	0	0	
6:44	656									ISIP
6:49	605									5 MIN
6:54	598									10 MIN
6:59	582									15 MIN

Treating Pressure: Minimum: 486 psi	Maximum: 1,500 psi	Average: 1,101 psi
Treating Rate: Minimum: 0 bpm	Maximum: 8.3 bpm	Average: 68.7 bpm
Initial Shut Down Pressure: 656 psi	Final Shut-In Pressure: 691 psi	DH Rate Average: 3.6 bpm
Operators Maximum Pressure: 5,000 psi		
Customer Representative: MR. DOUG ZENTZ		

Key Energy Services Rep: Waylon ShockleyKey Energy Services Rep. Signature: Waylon Shockley