

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
EOG Resources Inc.

3a. Address
P.O. Box 2267 Midland, Texas 79702

3b. Phone No. (include area code)
432-686-3689

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**760' FSL & 510' FEL, U/L P
Sec 33, T18S, 23E**

5. Lease Serial No

NM 109414

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

8. Well Name and No.

**Pembina B 33 2H
Fed Com**

9. API Well No.

30-015-36502

10. Field and Pool, or Exploratory Area

Four Mile Draw; Wolfcamp

11. County or Parish, State

Eddy NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other <u>completion</u> |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

10/14/08 TD at 8400' MD.

10/15/08 Ran 192 jts 5-1/2", 17 #, N-80 LTC casing set at 8390'.

Cemented w/ 630 sx 50/50 POZ C, 11.8 ppg, 2.29 yield; 745 sx 50/50 POZ C, 14.2 ppg, 1.30 yield.
Circulated 245 sx to surface. Released rig.

10/20/08 MIRU for completion.

Perforated from 7765' to 8320', 0.42", 24 holes.

10/21/08 Frac w/ 70 bbls 15% HCL acid, 144 bbls Dilute acid, 506 bbls 15 # Linear gel, 71982 lbs
100 mesh sand, 77545 lbs 30/70 sand, 29276 lbs 20/40 sand, 6010 bbls water.

Perforated from 6655' to 7490', 0.42", 30 holes.

Frac w/ 70 bbls 15% HCL acid, 144 bbls Dilute acid, 504 bbls 15 # Linear gel, 77754 lbs
100 mesh sand, 75732 lbs 30/70 sand, 29362 lbs 20/40 sand, 5824 bbls water.

Perforated from 5730' to 6470', 0.42", 30 holes.

Frac w/ 70 bbls 15% HCL acid, 144 bbls Dilute acid, 498 bbls 15 # Linear gel, 77123 lbs
100 mesh sand, 79604 lbs 30/70 sand, 29477 lbs 20/40 sand, 5796 bbls water.

10/22/08 Perforated from 4800' to 5545', 0.42", 30 holes.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Stan Wagner

Title

Regulatory Analyst

ACCEPTED FOR RECORD

Signature

Date

10/28/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

NOV 29 2008

Approved by

Title

Office

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

**BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE**

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Accepted for record - NMOCB

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Pembina B 33 2H

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10/22/08 Frac w/ 70 bbls 15% HCL acid, 144 bbls Dilute acid, 1013 bbls 15 # Linear gel, 113230 lbs 100 mesh sand, 91810 lbs 30/70 sand, 52240 lbs 20/40 sand, 6481 bbls water. Flowback.
10/23/08 RIH w/ 2-3/8" production tubing set at 5150'. Flowback.
10/26/08 RIH to drill out plugs and clean out.
11/01/08 Ran back in hole after drill out with 2-3/8" production tubing set at 5150'. Flowback.
11/04/08 Turned to sales.

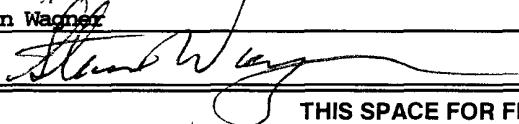
14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Stan Wagner

Title

Regulatory Analyst

Signature



Date **11/05/08**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

ACCEPTED FOR RECORD

NOV 29 2008

Date

**BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE**

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0      S C I E N T I F I C       D R I L L I N G       C O N T R O L S       0
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KEEPER GYRO SURVEY

Directional Survey Report

for

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UAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUG  
|  
3          EOG RESOURCES          |  
|                                   |  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUU
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Well Number	:	PEMBINA B33 FED COM 2H
Well Location	:	EDDY COUNTY, NEW MEXICO
Job Number	:	32K1008786
Location Latitude	:	32.699
Survey Date	:	6-OCT-2008
S.D.C. Personnel	:	ANGEL GUEBARA
Length Units	:	Feet
North Reference	:	GRID North
Grid Correction	:	0.19 Degrees
Survey Depth Zero	:	RKB
Proposal Direction	:	269.97
Calculation Method	:	Minimum Curvature

Remarks : The OUTRUN Survey will be called definitive

[illegible]

Outrun Survey for

Page 1

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Well No.: PEMBINA B33 FED COM 2H          Date : 6-OCT-2008
Job No.  : 32K1008786                     GRID      Proposal : 269.97
Depth    T.V.D.      V.S.      Inc      Azimuth Latitude Departure D-leg
                                         Page 1

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Pembina B 33 Fed Com #2H Gyro.txt

(Feet)	(Feet)	(Feet)	Deg.	Deg.	(Feet)	(Feet)	/100
0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00
100.00	100.00	0.47	0.77	316.21	0.48	-0.47	0.77
200.00	199.98	1.14	1.22	348.63	2.01	-1.14	0.70
300.00	299.96	1.35	1.11	359.82	4.03	-1.35	0.25
400.00	399.94	1.26	1.01	5.96	5.87	-1.26	0.15
500.00	499.93	0.99	1.06	11.11	7.66	-0.99	0.11
600.00	599.91	0.68	0.88	10.16	9.32	-0.68	0.18
700.00	699.90	0.41	0.76	10.98	10.73	-0.42	0.12
800.00	799.89	0.06	0.77	20.08	12.01	-0.06	0.12
900.00	899.89	-0.22	0.65	4.64	13.21	0.21	0.22
1000.00	999.88	-0.10	0.58	340.72	14.25	0.09	0.26
1100.00	1099.88	0.13	0.47	351.30	15.13	-0.14	0.15
1200.00	1199.87	0.35	0.62	342.32	16.05	-0.36	0.17
1300.00	1299.86	0.94	0.82	323.89	17.14	-0.95	0.30
1400.00	1399.86	1.70	0.59	318.97	18.11	-1.71	0.24
1500.00	1499.85	2.32	0.58	325.82	18.92	-2.33	0.07
1600.00	1599.85	2.96	0.42	281.01	19.41	-2.97	0.41
1700.00	1699.85	3.67	0.42	250.94	19.36	-3.68	0.22
1800.00	1799.84	4.15	0.35	205.99	18.96	-4.16	0.30
1900.00	1899.84	4.42	0.41	201.86	18.36	-4.43	0.07
2000.00	1999.84	4.73	0.45	207.34	17.68	-4.74	0.06
2100.00	2099.83	5.08	0.52	200.88	16.90	-5.08	0.09
2200.00	2199.83	5.37	0.58	195.59	15.99	-5.38	0.08
2300.00	2299.82	5.68	0.68	196.59	14.94	-5.69	0.10
2400.00	2399.82	6.32	0.69	230.87	13.99	-6.32	0.40
2500.00	2499.81	7.20	0.70	222.55	13.16	-7.20	0.10
2600.00	2599.80	7.89	0.60	212.71	12.27	-7.90	0.15
2700.00	2699.80	8.42	0.46	216.81	11.50	-8.42	0.14
2800.00	2799.80	8.95	0.40	235.41	10.98	-8.95	0.15
2900.00	2899.79	9.47	0.31	241.93	10.66	-9.48	0.10
3000.00	2999.79	10.02	0.36	266.26	10.51	-10.03	0.15
3100.00	3099.79	10.84	0.58	274.93	10.54	-10.85	0.23
3200.00	3199.78	11.74	0.48	249.42	10.43	-11.74	0.25
3300.00	3299.78	12.30	0.31	218.17	10.07	-12.30	0.27
3400.00	3399.78	12.61	0.26	218.15	9.68	-12.61	0.05
3500.00	3499.78	12.98	0.33	236.13	9.34	-12.99	0.12
3600.00	3599.78	13.66	0.50	272.23	9.20	-13.66	0.30
3700.00	3699.77	14.44	0.42	290.96	9.35	-14.44	0.17
3800.00	3799.77	14.82	0.24	347.56	9.68	-14.83	0.35
3900.00	3899.77	14.82	0.13	27.93	9.99	-14.82	0.16
4000.00	3999.77	14.30	0.53	91.02	10.08	-14.31	0.49
4100.00	4099.76	12.88	1.11	99.54	9.91	-12.89	0.59
4193.00	4192.74	11.05	1.16	89.48	9.77	-11.06	0.22

The Horizontal Displacement (in Feet) at
 Measured Depth 4193.00 is 14.76 in a Direction of 311.45 Degrees

Pembina B Fed Com #2H Final Surveys.txt

~Version Information

VERS. 2.00: PATHFINDER ENERGY SERVICES LAS - Version 2.00
 WRAP. NO: One line per depth step

~Well Information

STRT.FT 0.0000:
 STOP.FT 8800.0000:
 STEP.FT 0.0000:
 NULL. -999.25:
 "COMP. EOG RESOURCES, INC.: COMPANY"
 WELL. PEMBINA B33 FED #2H: WELL
 FLD. FOUR MILE DRAW(WOLFCAMP): FLD
 SRVC. Pathfinder Energy Services: SERVICE COMPANY
 LOC. : LOCATION
 DATE. 14-Oct-08: LOG DATE
 UWI. 30-015-36502: API NUMBER
 APD .FT 18.00: ELEVATION ABOVE PERMANENT DATUM
 CNTY. EDDY COUNTY: COUNTY
 CTRY. UNITED STATES: COUNTRY
 DMF. KELLY BUSHINGS: DRILLING-LOG MEASURED FROM
 EPD .FT 3938.00: ELEVATION OF PERMANENT DATUM
 FL1. 760' FSL 510' FEL: WELL LOCATION 1
 "FL2. X; 390,548.4' Y; 618,187.8': WELL LOCATION 2"
 PDAM. GROUND LEVEL - MEAN SEA LEVEL: ELEVATION OF PERMANENT DATUM REF
 PDAT. GROUND LEVEL: PERMANENT DATUM
 RANG. 23E: RANGE
 SECT. 033: SECTION
 STAT. NM: STATE
 TOWN. 18S: TOWNSHIP

~Parameter Information

BHB1.IN 12 1/4: BOREHOLE REC; BIT 1
 BHF1.FT 0: BOREHOLE REC; FROM 1
 BHO1.FT 1239: BOREHOLE REC; TO 1
 BHB2.IN 7 7/8: BOREHOLE REC; BIT 2
 BHF2.FT 1239: BOREHOLE REC; FROM 2
 BHO2.FT 8396: BOREHOLE REC; TO 2
 CTS1.IN 8 5/8: CASING & TUBING REC; SIZE 1
 CTF1.FT 0: CASING & TUBING REC; FROM 1
 CTO1.FT 1239: CASING & TUBING REC; TO 1
 DCOM. MCVAY DRILLING: DRILLING COMPANY
 RIG. #4: DRILLING RIG
 LUN. TRAILER: LOGGING UNIT NUMBER
 DIST. WEST TEXAS: DISTRICT
 SPUD. 03-OCT-08: SPUD DATE
 STDT. 09-OCT-08: START DATE
 SDEP.FT 4146: DEPTH IN
 ENDT. 14-OCT-08: LWD END DATE
 EDEP.FT 8396: DEPTH OUT
 TDEP.FT 8396: TOTAL DEPTH

Pembina B Fed Com #2H Final Surveys.txt

"R010. RUN #3; 6-1/2"" HDS-1R/GAMMA-RAY LOGGING RUN.: Remarks - Line 010 "
 "R002. EOG RESOURCES, INC. AFE #; 103910.: Remarks - Line 002 "
 R003. PATHFINDER ENERGY SERVICES TRACKING #; 101007910-WT-WT.: Remarks - Line 003
 R005. ALL REFERENCES IN DEPTH TRACK ARE AT BIT DEPTH.: Remarks - Line 005
 R006. ALL LOGGING DATA IS TRANSMITTED ONLY UNLESS STATED OTHERWISE.: Remarks - Line 006
 "R008. RUN #1; 6-1/2"" HDS-1R/GAMMA-RAY LOGGING RUN.: Remarks - Line 008 "
 "R009. RUN #2; 6-1/2"" HDS-1R/GAMMA-RAY LOGGING RUN.: Remarks - Line 009 "
 RA01. 1: RUN NUMBER 01
 RB01. 09-OCT-08: START DATE - RUN 01
 RC01. 06:00: START TIME - RUN 01
 RD01. 10-OCT-08: END DATE - RUN 01
 RE01. 09:00: END TIME - RUN 01
 RF01.FT 4146: DEPTH IN - RUN 01
 RG01.FT 4486: DEPTH OUT - RUN 01
 RH01.FT 4100: LOG TOP - RUN 01
 RI01.FT 4438: LOG BOTTOM - RUN 01
 RJ01.IN 7 7/8: HOLE SIZE - RUN 01
 RU01. M. SHIPP: ENGINEER #1 - RUN 01
 MB01.FT 4150: MUD DEPTH - RUN 01
 MD01. WATER BASED: MUD TYPE - RUN 01
 ME01.LB/GAL 9.20: DENSITY - RUN 01
 MF01.S/QT 34: VISCOSITY - RUN 01
 MG01. 10.5: PH - RUN 01
 MH01.PPM 60000: SALINITY - RUN 01
 MK01.DEGF 108: MAX REC TEMP - RUN 01
 RA02. 2: RUN NUMBER 02
 RB02. 10-OCT-08: START DATE - RUN 02
 RC02. 09:15: START TIME - RUN 02
 RD02. 11-OCT-08: END DATE - RUN 02
 RE02. 00:45: END TIME - RUN 02
 RF02.FT 4486: DEPTH IN - RUN 02
 RG02.FT 4764: DEPTH OUT - RUN 02
 RH02.FT 4438: LOG TOP - RUN 02
 RI02.FT 4719: LOG BOTTOM - RUN 02
 RJ02.IN 7 7/8: HOLE SIZE - RUN 02
 RU02. M. SHIPP: ENGINEER #1 - RUN 02
 MB02.FT 4500: MUD DEPTH - RUN 02
 MD02. WATER BASED: MUD TYPE - RUN 02
 ME02.LB/GAL 9.20: DENSITY - RUN 02
 MF02.S/QT 34: VISCOSITY - RUN 02
 MG02. 10.5: PH - RUN 02
 MH02.PPM 60000: SALINITY - RUN 02
 MK02.DEGF 108: MAX REC TEMP - RUN 02
 RA03. 3: RUN NUMBER 03
 RB03. 11-OCT-08: START DATE - RUN 03
 RC03. 01:30: START TIME - RUN 03
 RD03. 14-OCT-08: END DATE - RUN 03
 RE03. 22:30: END TIME - RUN 03

Pembina B Fed Com #2H Final Surveys.txt

RF03.FT 4764: DEPTH IN - RUN 03
 RG03.FT 8396: DEPTH OUT - RUN 03
 RH03.FT 4719: LOG TOP - RUN 03
 RI03.FT 8343: LOG BOTTOM - RUN 03
 RJ03.IN 7 7/8: HOLE SIZE - RUN 03
 RU03. M. SHIPP: ENGINEER #1 - RUN 03
 MB03.FT 4950: MUD DEPTH - RUN 03
 MD03. WATER BASED: MUD TYPE - RUN 03
 ME03.LB/GAL 8.90: DENSITY - RUN 03
 MF03.S/QT 30: VISCOSITY - RUN 03
 MG03. 12.0: PH - RUN 03
 MH03.PPM 55000: SALINITY - RUN 03
 MK03.DEGF 116: MAX REC TEMP - RUN 03
 TTL1. GAMMA-RAY: HEADER TITLE LINE 1
 TTL2. GAMMA-RAY: HEADER TITLE LINE 2
 TTL3. : HEADER TITLE LINE 3
 "SC1 . 5'" = 100': LOG SCALE 1"
 "SC2 . 1'" = 100': LOG SCALE 2"
 OS1 . DIRECTIONAL: OTHER SERVICES LINE 1
 OS2 . ROP: OTHER SERVICES LINE 2

~Curve Information

#	DEPT	MTTVD	INC	AZI	SECT	RCN	RCE	DLSEV
#	FT	FT	DEG	DEG	FT	FT	FT	DG/HFT
#								
#	Re-log Number	0	0	0	0	0	0	0

~ASCII Data

4100.00	4099.76	1.11	99.54	12.88	9.91	-12.89	-999.25
4142.00	4141.75	1.06	99.31	12.10	9.78	-12.11	0.12
4203.00	4202.75	0.62	80.02	11.22	9.75	-11.22	0.85
4234.00	4233.74	0.97	301.76	11.28	9.91	-11.28	4.81
4265.00	4264.71	4.13	275.42	12.61	10.16	-12.62	10.61
4296.00	4295.53	8.00	270.77	15.88	10.29	-15.89	12.57
4327.00	4326.06	11.87	270.26	21.23	10.33	-21.23	12.49
4358.00	4356.15	15.83	268.32	28.65	10.22	-28.65	12.86
4389.00	4385.69	19.52	267.28	38.05	9.86	-38.05	11.95
4420.00	4414.56	23.13	266.15	49.30	9.20	-49.31	11.72
4450.00	4441.75	26.82	266.25	61.94	8.36	-61.94	12.30
4481.00	4468.91	30.78	267.20	76.85	7.52	-76.85	12.86
4512.00	4494.91	35.17	268.64	93.70	6.92	-93.71	14.38

Pembina B Fed Com #2H Final Surveys.txt							
4543.00	4519.58	39.31	270.36	112.46	6.77	-112.46	13.77
4574.00	4542.81	43.62	271.20	132.98	7.05	-132.98	14.02
4605.00	4564.44	47.84	271.36	155.16	7.55	-155.17	13.62
4636.00	4584.33	52.32	272.59	178.92	8.38	-178.92	14.77
4667.00	4602.32	56.72	273.36	204.12	9.69	-204.12	14.34
4697.00	4617.77	61.29	272.67	229.79	11.04	-229.80	15.36
4728.00	4631.62	65.60	272.12	257.49	12.20	-257.50	13.99
4759.00	4643.57	69.03	271.09	286.08	12.99	-286.08	11.48
4790.00	4653.87	72.19	270.69	315.31	13.45	-315.32	10.27
4820.00	4662.25	75.36	269.67	344.11	13.53	-344.12	11.06
4851.00	4669.30	78.35	268.79	374.29	13.13	-374.30	10.03
4883.00	4674.84	81.69	267.63	405.79	12.14	-405.79	11.03
4976.00	4680.47	91.36	267.90	498.44	8.53	-498.44	10.40
5069.00	4677.69	92.07	268.70	591.35	5.77	-591.36	1.15
5162.00	4674.40	91.98	269.45	684.29	4.27	-684.29	0.81
5255.00	4671.19	91.98	269.64	777.23	3.53	-777.23	0.20
5349.00	4668.59	91.19	269.28	871.19	2.65	-871.19	0.92
5443.00	4666.92	90.84	269.30	965.16	1.48	-965.17	0.37
5537.00	4664.18	92.51	272.06	1059.11	2.59	-1059.11	3.43
5631.00	4661.21	91.10	272.63	1152.97	6.44	-1152.98	1.62
5724.00	4657.93	92.95	273.67	1245.77	11.55	-1245.77	2.28
5816.00	4654.96	90.75	271.78	1337.60	15.92	-1337.61	3.15
5910.00	4653.15	91.45	271.36	1431.55	18.49	-1431.56	0.87
6004.00	4649.69	92.77	270.34	1525.47	19.88	-1525.48	1.77
6097.00	4645.98	91.80	268.14	1618.38	18.65	-1618.39	2.58
6190.00	4644.27	90.31	262.67	1711.03	11.20	-1711.04	6.09
6285.00	4641.87	92.59	261.07	1805.05	-2.22	-1805.05	2.93
6379.00	4637.26	93.03	261.31	1897.83	-16.60	-1897.83	0.53
6473.00	4632.72	92.51	261.35	1990.66	-30.76	-1990.64	0.56
6566.00	4628.51	92.68	262.05	2082.60	-44.17	-2082.57	0.77
6660.00	4623.39	93.56	265.59	2175.90	-54.27	-2175.87	3.88
6753.00	4616.61	94.79	269.35	2268.55	-58.37	-2268.52	4.24
6848.00	4608.32	95.23	271.85	2363.17	-57.38	-2363.14	2.66
6941.00	4601.62	93.03	271.65	2455.88	-54.55	-2455.85	2.38
7034.00	4596.35	93.47	272.02	2548.68	-51.57	-2548.65	0.62
7128.00	4592.17	91.63	272.46	2642.51	-47.90	-2642.48	2.01
7221.00	4590.16	90.84	271.23	2735.43	-44.91	-2735.41	1.57
7320.00	4588.56	91.01	271.38	2834.39	-42.65	-2834.37	0.23
7409.00	4586.99	91.01	272.57	2923.32	-39.59	-2923.30	1.34
7502.00	4584.28	92.33	272.59	3016.19	-35.40	-3016.17	1.42
7596.00	4580.97	91.71	272.55	3110.03	-31.19	-3110.02	0.66
7689.00	4578.76	91.01	272.05	3202.93	-27.46	-3202.91	0.93
7781.00	4576.08	92.33	272.24	3294.82	-24.02	-3294.81	1.45
7874.00	4572.87	91.63	272.34	3387.69	-20.30	-3387.68	0.76
7969.00	4570.32	91.45	273.11	3482.54	-15.79	-3482.53	0.83
8063.00	4567.36	92.15	272.78	3576.37	-10.96	-3576.36	0.82
8156.00	4563.37	92.77	272.97	3669.16	-6.30	-3669.16	0.70
8248.00	4559.84	91.63	272.66	3760.98	-1.79	-3760.98	1.28

8327.00	4558.26	90.66	271.97	Pembina B Fed Com #2H Final Surveys.txt			
8400.00	4557.42	90.66	271.97	3839.90	1.40	-3839.90	1.51
				3912.85	3.91	-3912.85	0.00