

FRA



## CE TRADING REPORT

FORM # 201

00201788

BILLED ON  
TICKET NO.

NOV 25 1985

Field Besse Well Sec. 27 Twp. 6N  
 Formation Name Wishers Type Sand  
 Formation Thickness 136 From 6841 To 6927  
 Initial Prod: Oil \_\_\_\_\_ Bpd. Water \_\_\_\_\_ Bpd. Gas \_\_\_\_\_ Mcfd.  
 Present Prod: Oil \_\_\_\_\_ Bpd. Water \_\_\_\_\_ Bpd. Gas \_\_\_\_\_ Mcfd.  
 Isolation Tool # \_\_\_\_\_ Mandrel Size \_\_\_\_\_ Extensions \_\_\_\_\_ In.  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ RBP@ \_\_\_\_\_  
 Head Or Flange \_\_\_\_\_ Phtd 7250

## WELL DATA

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>11.6</u>	<u>4 1/2</u>	<u>0</u>	<u>7250</u>	<u>6000</u>
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS	<u>A</u>			<u>6841</u>	<u>6843</u>	<u>2.56 ft</u>
PERFORATIONS	<u>B</u>			<u>6960</u>	<u>6977</u>	<u>6.56 ft</u>
PERFORATIONS						

## MATERIALS

Treat. Fluid H4-T-C-1 Density 35 Lb./Gal. 2 API  
 Displ. Fluid KCL-H2O Density 2% Lb./Gal. 2 API  
 Prop. Type Bulk Sand Size 100 Mesh Lb. 10000  
 Prop. Type Bulk Sand Size 4/40 Lb. 185000  
 Radioactive Tracer Intercomp Carrier 1/40 Units-MCI 12000  
 Surfactant Type Lab 1259 Gal. 38 @ 1/2 /1000 Gal.  
 Surfactant Type \_\_\_\_\_ Gal. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Fluid Loss Type \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Gelling Agent LUC-19 Gal.-Lb. 2000 @ 35 /1000 Gal.  
 Gelling Agent \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Breaker Type CPW-3 Gal.-Lb. 20 @ 1/2 /1000 Gal.  
 Breaker Type SPBuster Gal.-Lb. 20 @ 1/2 /1000 Gal.  
 Crosslinker CL-18 Gal.-Lb. 38 @ 5 /1000 Gal.  
 Stabilizer CEL-9 Gal.-Lb. 400 @ 0.10 /1000 Gal.  
 Buffer Type K-31 Gal.-Lb. 300 @ 1/2 /1000 Gal.  
 Buffer Type H2G-3 Gal.-Lb. 150 @ 1/2 /1000 Gal.  
 Bactericide BE-3 Gal.-Lb. 6 @ 1 /1000 Gal.  
 Non-Foamer NE-1 Gal.-Lb. 2000 @ 1/2 /1000 Gal.  
 Clay Control Phospha Chlor Gal.-Lb. 10500 @ 27 /1000 Gal.  
 Diverter \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Friction Reducer \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_ Size \_\_\_\_\_ S.G.  
 Other \_\_\_\_\_

## JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-8</u>	DATE <u>11-8</u>	DATE <u>11-8</u>	DATE <u>11-8</u>
TIME <u>1045</u>	TIME <u>1045</u>	TIME <u>1342</u>	TIME <u>1547</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. Rafferty</u>	<u>Fire Opr</u>	<u>Brighton</u>
<u>B. Williams</u>	<u>5229 Pump</u>	<u>"</u>
<u>G. Carpenter</u>	<u>7552 HT</u>	<u>"</u>
<u>B. Butcher</u>	<u>5293 HT</u>	<u>"</u>
<u>L. Cordey</u>	<u>4967 HT</u>	<u>"</u>
<u>B. Green</u>	<u>2013 HT</u>	<u>"</u>
<u>D. Munsell</u>	<u>75306 HT</u>	<u>"</u>
<u>K. Greas</u>	<u>6494 HT</u>	<u>"</u>
<u>J. Newton</u>	<u>0551 IFM</u>	<u>"</u>
<u>R. Rafferty</u>	<u>1568 Chem</u>	<u>"</u>
<u>T. Johnson</u>	<u>3741 Mtl.</u>	<u>"</u>
<u>D. Park</u>	<u>4420 KCL</u>	<u>"</u>
<u>G. Graham</u>	<u>0350 Monitor</u>	<u>"</u>
<u>V. Sparks</u>	<u>3111 Upr</u>	<u>"</u>
<u>C. Smith</u>	<u>3119 Acid</u>	<u>"</u>
<u>P. Mann</u>	<u>4499 Bulk</u>	<u>"</u>
<u>R. Lucero</u>	<u>4920 Bulk</u>	<u>"</u>
<u>R. Carter</u>	<u>Supr</u>	<u>"</u>
<u>D. Williams</u>	<u>Eng</u>	<u>"</u>

## ACID DATA

Acid Type HCL % 2% Gal.-Bbl. 500  
 Acid Type \_\_\_\_\_ % \_\_\_\_\_ Gal.-Bbl. \_\_\_\_\_  
 Surfactant Type Lab 1259 Gal. 1 @ 2 /1000 Gal.  
 Surfactant Type \_\_\_\_\_ Gal. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 NE Agent Type \_\_\_\_\_ Gal. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Clay Control Type CL-9 Gal.-Lb. 1 @ 2 /1000 Gal.  
 Corrosion Inhibitor HRI-75 Gal.-Lb. 5 @ 10 /1000 Gal.  
 Corrosion Inhibitor \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Cracking Inhibitor \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Iron Sequester Facchek Gal.-Lb. 5 @ 10 /1000 Gal.  
 Friction Reducer \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

Circulating \_\_\_\_\_ Displacement 6500  
 Breakdown 5500 Maximum 6500  
 Average 5000 Fracture Gradient \_\_\_\_\_  
 ISIP 6000 5 Min 3040 10 Min 2940 15 Min 2700  
 HYDRAULIC HORSEPOWER  
 Ordered 6000 Available 6000 Used 2084  
 AVERAGE RATE IN BPM  
 Creating 13-21 Displ. 21 Overall 17

Preflush: Bbl.-Gal. \_\_\_\_\_ Type \_\_\_\_\_  
 Load & Bkdn: Bbl.-Gal. 2000 Pad: Scf-Bbl.-Gal. 6000  
 Treatment: Bbl.-Gal. 63500 Displ: Bbl.-Gal. 3710  
 Gas Assist \_\_\_\_\_ Tons-Scf \_\_\_\_\_ @ \_\_\_\_\_ Scf./Bbl.  
 Foam Quality \_\_\_\_\_ % Total Volume Foam \_\_\_\_\_ Bbl.-Gal.  
 Total Volume: Bbl.-Gal. 75310 Fluid-Foam \_\_\_\_\_

## REMARKS

1782 Bbl water used  
14 Bbl oil used  
 Halliburton Operator RIP/AT

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## FRACTURING SERVICE TREATING REPORT

FORM #2012 R-3

BILLED ON  
TICKET NO.

NOV 25 1985

Field Browerwell Sec. 27 Twp. 6N  
 Formation Name Cadell Type Sand  
 Formation Thickness 12' From 7146' To 7158'  
 Initial Prod: Oil \_\_\_\_\_ Bpd. Water \_\_\_\_\_ Bpd. Gas \_\_\_\_\_ Mcfd.  
 Present Prod: Oil \_\_\_\_\_ Bpd. Water \_\_\_\_\_ Bpd. Gas \_\_\_\_\_ Mcfd.  
 Isolation Tool # \_\_\_\_\_ Mandrel Size \_\_\_\_\_ Extensions \_\_\_\_\_ In.  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ RBP@ \_\_\_\_\_  
 Head Or Flange \_\_\_\_\_ Pstd 7250

## WELL DATA

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>0</u>	<u>11.6</u>	<u>4 1/2</u>	<u>0</u>	<u>7250</u>	<u>5500</u>
LINER						
TUBING						
OPEN HOLE						
PERFORATIONS				<u>7146</u>	<u>7158</u>	<u>41 Shots</u>
PERFORATIONS						
PERFORATIONS						

COLO. OIL &amp; GAS BOYS COMM.

## MATERIALS

Treat. Fluid MYE-Gal Density 40 Lb./Gal. 2 API  
 Displ. Fluid KCL-H<sub>2</sub>O Density 27 Lb./Gal. 2 API  
 Prop. Type Bulk Sand Size 100 Mesh Lb. 5000  
 Prop. Type Bulk Sand Size 20/40 Lb. 100000  
 Radioactive Tracer Interprop Carrier 20/40 Units MCI 4000  
 Surfactant Type Surf 200 Gal. 17 @ 1/2 /1000 Gal.  
 Surfactant Type \_\_\_\_\_ Gal. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Fluid Loss Type \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Gelling Agent WLG-19 Gal.-Lb. 1600 @ 40 /1000 Gal.  
 Gelling Agent \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Breaker Type GB-0.3 Gal.-Lb. 20 @ 1/2 /1000 Gal.  
 Breaker Type SPB-0.3 Gal.-Lb. 20 @ 1/2 /1000 Gal.  
 Crosslinker CL-18 Gal.-Lb. 17 @ 6 /1000 Gal.  
 Stabilizer Gal-56 Gal.-Lb. 400 @ 10-15 /1000 Gal.  
 Buffer Type K-34 Gal.-Lb. 200 @ 1000 /1000 Gal.  
 Buffer Type H46-3 Gal.-Lb. 100 @ 1000 /1000 Gal.  
 Bactericide ME-3 Gal.-Lb. 6 @ 1 /1000 Gal.  
 Non-Foamer ME-1 Gal.-Lb. 200 @ 1/2 /1000 Gal.  
 Clay Control Clay Control Gal.-Lb. 10500 @ 27 /1000 Gal.  
 Diverter \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Friction Reducer \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_ Size \_\_\_\_\_ S.G.  
 Other \_\_\_\_\_

## JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-8</u>	DATE <u>11-8</u>	DATE <u>11-8</u>	DATE <u>11-8</u>
TIME <u>0300</u>	TIME <u>0530</u>	TIME <u>0917</u>	TIME <u>1029</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>B. R. R. R.</u>	<u>1100 OPR.</u>	<u>Brighton</u>
<u>B. C. Williams</u>	<u>5221 OPR.</u>	<u>"</u>
<u>G. Carpenter</u>	<u>7552 HT</u>	<u>"</u>
<u>B. Burroughs</u>	<u>5293 HT</u>	<u>"</u>
<u>L. Corley</u>	<u>4967 HT</u>	<u>"</u>
<u>R. Green</u>	<u>7013 HT</u>	<u>"</u>
<u>D. Mansell</u>	<u>7530 HT</u>	<u>"</u>
<u>K. Gries</u>	<u>6494 HT</u>	<u>"</u>
<u>J. Newton</u>	<u>0551 Iron</u>	<u>"</u>
<u>R. R. R. R.</u>	<u>51568 Chan</u>	<u>"</u>
<u>T. Johnson</u>	<u>3721 M-41</u>	<u>"</u>
<u>D. Beck</u>	<u>4426 KCL</u>	<u>"</u>
<u>C. Graham</u>	<u>5350 Mandrel</u>	<u>"</u>
<u>R. Spotts</u>	<u>3111 Van</u>	<u>"</u>
<u>C. Smith</u>	<u>3119 Mand</u>	<u>"</u>
<u>P. Mann</u>	<u>4439 Bulk</u>	<u>"</u>
<u>R. Lucero</u>	<u>4900 Bulk</u>	<u>"</u>
<u>R. Carter</u>	<u>Surf</u>	<u>"</u>
<u>D. Wulhan</u>	<u>Eng</u>	<u>"</u>

## ACID DATA

Acid Type \_\_\_\_\_ % \_\_\_\_\_ Gal.-Bbl. \_\_\_\_\_  
 Acid Type \_\_\_\_\_ % \_\_\_\_\_ Gal.-Bbl. \_\_\_\_\_  
 Surfactant Type \_\_\_\_\_ Gal. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Surfactant Type \_\_\_\_\_ Gal. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 NE Agent Type \_\_\_\_\_ Gal. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Clay Control Type \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Corrosion Inhibitor \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Corrosion Inhibitor \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Cracking Inhibitor \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Iron Sequester \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.  
 Friction Reducer \_\_\_\_\_ Gal.-Lb. \_\_\_\_\_ @ \_\_\_\_\_ /1000 Gal.

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

Circulating \_\_\_\_\_ Displacement 4000  
 Breakdown \_\_\_\_\_ Maximum 3500  
 Average 3100 Fracture Gradient \_\_\_\_\_  
 ISIP 3700 5 Min. 3540 10 Min. 3460 15 Min. 3440  
**HYDRAULIC HORSEPOWER**  
 Ordered 6000 Available 6000 Used 912  
**AVERAGE RATE IN BPM**  
 Treating 12-13 Displ. 14 Overall 13

Preflush: Bbl.-Gal. \_\_\_\_\_ Type \_\_\_\_\_  
 Load & Bkdn: Bbl.-Gal. \_\_\_\_\_ Pad: Scf-Bbl.-Gal. 2000  
 Treatment: Bbl.-Gal. 25150 Displ: Bbl.-Gal. 4700  
 Gas Assist \_\_\_\_\_ Tons-Scf \_\_\_\_\_ Scf/Bbl. \_\_\_\_\_  
 Foam Quality \_\_\_\_\_ % Total Volume Foam \_\_\_\_\_ Bbl.-Gal. \_\_\_\_\_  
 Total Volume: Bbl.-Gal. 31850 Fluid-Foam \_\_\_\_\_

## REMARKS

753 Bbl water used  
10 Bbl oil used  
 Halliburton Operator PJ R/L

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## JOB LOG

CODELL

FORM 2013 R-2

WELL NO. 4-27

LEASE HI Brown

TICKET NO. 290626

CUSTOMER Tower Drilling Company

PAGE NO. 1

JOB TYPE MY-T-Flow HT 1400

DATE 11-2-85

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0300							Called Out
	0530							ON Location
	0830							Safety Meeting
	0840				1	6500		Prime up & Test Lines
1	0917	12	2000		2			Start Pcl
2	0922	12	5000		6	3250		Start 100 Mesh @ 1"
	0932	12				3450		1" 100 Mesh bit
3	0932	12	1500		6	3450		Start 20/40 @ 2"
4	0936	12	1500		6	3430		Start 20/40 @ 3"
5	0939	12	5000		6	3290		Start 20/40 @ 4"
	0943	12				3090		2" bit
	0946	12				3000		3" bit
	0950	12				2990		4" bit
6	0951	12	7000		6	3000		Start 20/40 @ 6"
	1002	12				2890		6" bit
7	1008	12	3000		6	2890		Start 20/40 @ 7"
8	1015	13	1200		6	2930		Start 20/40 @ 8"
9	1018	13	600		6	2940		Start 20/40 @ 8"
10	1019	13	350		6	2940		Start 20/40 @ 8"
11	1030	13	4900		6	2940		Start Flush with 500 gal 2 1/2% L
	1039							Finish
						3700		181P
						3540		5 min
						3460		10 min
						3440		15 min
	1044							Shot well in to 1st Sand Plug
								Full

RECEIVED

NOV 25 1985

COLO. OIL &amp; GAS CONS. COMM.

37% O.I

Thanks Steve

*[Signature]*

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## JOB LOG

Nimbura

WELL NO. 4-27

LEASE HI Brown

TICKET NO. 290626

CUSTOMER

Tower Drilling Company

PAGE NO. 2

JOB TYPE

M.V.T. Gel HT 1350

DATE 11-2-85

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1045							Called Out
	1045							ON location
	1100							Safety Meeting
								NOV 2 5 1985
								COLO. OIL & GAS CONS. COMM.
1	1155							Start Breakdown AHumps (9)
	1238	13	2000		7		5500	Breakdown & Pump 2000 gal
	1240						3100	Shut down wait for Acid
	1335	5			1		3550	Pump 500 gal 2 1/2% HCL Acid
1	1348	14	6000		7		5500	Start PAD
2	1359	14	6000		7		5510	Start 100 Mesh @ 1/2"
	1407	14 1/2					5520	1/2" 100 Mesh hit
3	1409	14 1/2	7000		7		5620	Start 100 Mesh @ 1"
	1417	14 1/2					5450	1/2" 100 Mesh hit
4	1421	14 1/2	5000		7		5440	Start 20/40 @ 1"
	1429	16					5400	1" 20/40 hit
5	1430	16	6000		7		5430	Start 20/40 @ 2"
	1437	16					5100	2" 20/40 hit
6	1440	16	10000		7		5130	Start 20/40 @ 3"
	1448	16					5040	3" hit
7	1457	16	15000		7		4800	Start 20/40 @ 4"
	1505	18					4960	4" hit
8	1531	19	11550		7		4600	Start 20/40 @ 5"
	1538	19					4390	5" hit
9	1539	21	2950		7		4430	Start 20/40 interprop @ 8"
10	1542	21	3910		7		4490	Start Flush
	1547						6000	Finish - Screen Out
							6000	ISIP
							3040	5 min
							2940	10 min
							2900	15 min

CUSTOMER

Thanks Steve  
JPR

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