

FRACTURING SERVICE TREATING REPORT

BILLED ON
TICKET NO.

254987 51885

FORM # 2012 R-3

Field Brownell Sec. 24 Twp. 6 WELL DATA Rng. 66 County Weld State CO

Formation Name Cadell Nub Type Sand

Formation Thickness 316 From 6874 To 7190

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 _____ Pbd 7203

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM ALLOWABLE
CASING	<u>U</u>	<u>11.6</u>	<u>4 1/2</u>	<u>0</u>	<u>7203</u>	<u>5500</u>
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS	<u>U</u>			<u>6874</u>	<u>6882</u>	<u>5</u>
PERFORATIONS	<u>N</u>			<u>6994</u>	<u>7010</u>	<u>6</u>
PERFORATIONS	<u>Cadell</u>			<u>7182</u>	<u>7190</u>	<u>3</u>

MATERIALS

Treat. Fluid MY-T-64 Density 40.55 Lb./Gal. @ API

Displ. Fluid KCL-1100 Density 27 Lb./Gal. @ API

Prop. Type Bulk Sand Size 100 Mesh Lb. 15000

Prop. Type Bulk Sand Size 20/40 Lb. 25000

Radioactive Tracer Tungsten Carrier 20/40 Units/MC 16000

Surfactant Type Labur 202 Gal. 60 @ 15 /1000 Gal.

Surfactant Type _____ Gal. _____ @ _____ /1000 Gal.

Fluid Loss Type _____ Gal.-Lb. _____ @ _____ /1000 Gal.

Gelling Agent WGC-12 Gal.-Lb. 4100 @ 40.75 /1000 Gal.

Gelling Agent _____ Gal.-Lb. _____ @ _____ /1000 Gal.

Breaker Type CBW-3 Gal.-Lb. 200 @ 100 /1000 Gal.

Breaker Type SP Breaker Gal.-Lb. 200 @ 100 /1000 Gal.

Crosslinker CL-12 Gal.-Lb. 68 @ 60.5 /1000 Gal.

Stabilizer Cal-36 Gal.-Lb. 600 @ 5.15 /1000 Gal.

Buffer Type K-31 Gal.-Lb. 200 @ 100 /1000 Gal.

Buffer Type WGC-3 Gal.-Lb. 200 @ 100 /1000 Gal.

Bactericide BE-3 Gal.-Lb. 11 @ 11 /1000 Gal.

Non-Foamer MF-1 Gal.-Lb. 20 @ 20 /1000 Gal.

Clay Control Alum Silicate Gal.-Lb. 24500 @ 2% /1000 Gal.

Diverter _____ Gal.-Lb. _____ @ _____ /1000 Gal.

Friction Reducer _____ Gal.-Lb. _____ @ _____ /1000 Gal.

Perfpac Balls _____ Qty. _____ Size _____ S.G. _____

Other _____

JOB DATA

CALLS OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-30</u>	DATE <u>10-30</u>	DATE <u>10-30</u>	DATE <u>10-30</u>
TIME <u>0430</u>	TIME <u>0700</u>	TIME <u>1249</u>	TIME <u>1422</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. K. Harty</u>	<u>Free Op.</u>	<u>Brighton</u>
<u>D. Rock</u>	<u>5866 Prop</u>	"
<u>C. Carpenter</u>	<u>8089 HT</u>	"
<u>B. Greenly</u>	<u>7013 HT</u>	"
<u>L. Conroy</u>	<u>1967 HT</u>	"
<u>D. Muscott</u>	<u>75306 HT</u>	"
<u>B. Burrough</u>	<u>5893 HT</u>	"
<u>K. Gries</u>	<u>6494 HT</u>	"
<u>J. Newton</u>	<u>0551 Iron</u>	"
<u>R. K. Harty</u>	<u>51568 Chem</u>	"
<u>S. Coan</u>	<u>4426 KCL</u>	"
<u>P. Williams</u>	<u>3762 M.H.</u>	"
<u>D. Keith</u>	<u>5350 M.H.</u>	"
<u>J. Shield</u>	<u>4582 Bulk</u>	"
<u>R. L. Wood</u>	<u>6227 Bulk</u>	"
<u>C. G. Galloway</u>	<u>3111 Bulk</u>	"
<u>E. Sharp</u>	<u>Mechanic</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

Circulating _____ Displacement 5100

Breakdown _____ Maximum 5500

Average 5300 Fracture Gradient

ISIP 4100 5 Min. 3400 10 Min. 3350 15 Min. 3280

HYDRAULIC HORSEPOWER

Ordered 6000 Available 6000 Used 4622

AVERAGE RATE IN BPM

Treating 30-32 Displ. _____ Overall 36

Customer Representative X

Copies Requested _____

CUSTOMER

SUMMARY

Preflush: Bbl.-Gal. _____ Type _____

Load & Bkdn: Bbl.-Gal. _____ Pad: Scf-Bbl.-Gal. 10000

Treatment: Bbl.-Gal. 101340 Displ: Bbl.-Gal. 4750

Gas Assist _____ Tons-Scf _____ @ _____ Scf/Bbl.

Foam Quality _____ % Total Volume Foam _____ Bbl.-Gal.

Total Volume: Bbl.-Gal. 116090 Fluid-Foam _____

REMARKS

2753 Bbl. water

20 Bbl. oil

Halliburton Operator LVH

HALLIBURTON SERVICES

JOB LOG

WELL NO. 3-34 LEASE Brown Davies TICKET NO. 254947
 CUSTOMER Bellwether (Tower Drilling Co.) PAGE NO. RECEIVED
 JOB TYPE MY-T-Frac HT 1400-1350 DATE 10-30-85

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0410							Called Out
	0700							ON Location
	1215							Safety Meeting
	1225				1		6600	Prime up & Test Lines
	1235	4			1		2000	Pump 500 Gal 7 1/2% HCL Acid
1	1249	33	10000		12		5500	Start PAD 40" Gal 3% C
2	1300	32	10000		12		5460	Start 100 Mesh C 1/2"
	1303	30					5430	1/2" 100 Mesh hit
3	1308	30	10000		12		5380	Start 100 Mesh C 1"
	1311	30					5310	1" 100 Mesh hit
4	1316	30	7500		12		5260	Start 20/40 C 1"
	1319	30 1/2					5240	1" hit
5	1322	32	10000		12		5300	Start 20/40 C 2" Start 35" Gal
	1325	34					5250	2" hit
6	1329	34	15000		12		5170	Start 20/40 C 3"
	1333	35 1/2					5080	3" hit
7	1340	36 1/2	24000		12		5170	Start 20/40 C 4"
	1344	36 1/2					5050	4" hit
8	1358	38	20000		12		5130	Start 20/40 C 5"
	1402	38					5010	5" hit
9	1414	38 1/2	2500		12		5330	Start 20/40 C 6 1/2"
10	1416	38	2340				5450	Start 20/40 Interprop C 8"
11	1418	36	4750		12		5170	Start Flush
	1422							Finish
							4100	151P
							3480	5 min
							3350	10 min
							3280	15 min

Thanks Steve
RJR

CUSTOMER