

HALLIBURTON SERVICES

FRAC'RING SERVICE TREATING REPORT

FORM #2012 P.1

HALLIBURTON DIVISION

Denver

HALLIBURTON LOCATION

Brignton

BILLED ON TICKET NO.

103210

Field

Sec.

Twp.

Rng.

County

State

Formation Name

Type

Formation Thickness

From

To

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

Pbtd

WELL DATA

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.1	4 1/2	0	7130	1500
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS	6000			7278	7292	8
PERFORATIONS	Nich	B		7091	7103	3
PERFORATIONS	Nich	C		7169	7183	2

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 12-8	DATE 12-8	DATE 12-8	DATE 12-8
TIME 0430	TIME 0715	TIME 0936	TIME 1123

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
Carter 46673	50028	Brignton
MARSHALL 69171	5866	"
CARDY 80893	5603	"
Cochran 51305	75300	"
Vanfeldt D1208	5893	"
Quinn 47749	5350	"
MANN 69169	7013	"
LUCEYO 68837	7882	"
Williams 86400	0186	"
SPARKS 56577	75711	"
LAURIA 48932		"
Moser 39300	Mech	"
Yeager 20154	ENG	"
Kether 25412	Safety	"
Chiswell 59148	Bulk	"
VANDERBORN 50853	Bulk	"

MATERIALS

Treat. Fluid	600	Density		Lb./Gal. @ API
Displ. Fluid	600	Density		Lb./Gal. @ API
Prop. Type	Bulk Sand	Size	350000	Lb.
Prop. Type		Size		Lb.
Radioactive Tracer		Carrier		Units-MCI
Surfactant Type	Accut 259	Gal.	40	@ /1000 Gal.
Surfactant Type		Gal.		@ /1000 Gal.
Fluid Loss Type		Gal.-Lb.		@ /1000 Gal.
Gelling Agent	IGL	Gal.-Lb.	660	@ /1000 Gal.
Gelling Agent		Gal.-Lb.		@ /1000 Gal.
Breaker Type	SP	Gal.	5	@ /1000 Gal.
Breaker Type	LRW-3	Gal.	5	@ /1000 Gal.
Crosslinker	CL-18	Gal.-Lb.	39	@ /1000 Gal.
Stabilizer	CCI-STA	Gal.-Lb.	350	@ /1000 Gal.
Buffer Type		Gal.-Lb.		@ /1000 Gal.
Buffer Type	BA-40	Gal.	500	@ /1000 Gal.
Bactericide		Gal.-Lb.		@ /1000 Gal.
Non-Foamer		Gal.-Lb.		@ /1000 Gal.
Clay Control	CLAY II	Gal.-Lb.	120	@ /1000 Gal.
Diverter		Gal.-Lb.		@ /1000 Gal.
Friction Reducer		Gal.-Lb.		@ /1000 Gal.
Perfpac Balls		Qty.		Size S.G.
Other				

ACID DATA

Acid Type	HCL	%	15	Gal.-Bbl.	500
Acid Type		%		Gal.-Bbl.	
Surfactant Type	Accut 259	Gal.	1	@ /1000 Gal.	
Surfactant Type		Gal.		@ /1000 Gal.	
NE Agent Type		Gal.		@ /1000 Gal.	
Clay Control Type		Gal.-Lb.		@ /1000 Gal.	
Corrosion Inhibitor	HAI-85	Gal.-Lb.	4	@ /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	
Breakdown		Maximum	5200
Average	4250	Fracture Gradient	
ISIP	3470	5 Min.	3340
		10 Min.	2280
		15 Min.	3200

HYDRAULIC HORSEPOWER

Ordered	4000	Available	4000	Used	2709
AVERAGE RATE IN BPM					
Treating	20-26	Displ.	26	Overall	26

SUMMARY

Preflush: Bbl.-Gal.		Type	
Load & Bkdn: Bbl.-Gal.		Pad: Scf-Bbl.-Gal.	15500
Treatment: Bbl.-Gal.	62500	Displ: Bbl.-Gal.	4500
Gas Assist		Tons-Scf	@ Scf/Bbl.
Foam Quality	%	Total Volume Foam	Bbl.-Gal.
Total Volume: Bbl.-Gal.	82500	Fluid-Foam	

VOLUMES

REMARKS
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CUSTOMER

Customer Representative

Copies Requested

Halliburton Operator

R. Carter

RECEIVED

FEB 27 1989

00169385

DEPARTMENT

STIMULATION

DESCRIPTION OF JOB

IMY-F-EROC HT

JOB DONE THRU: TUBING

CASING

ANNULUS

TSG/ANN.

CUSTOMER

Robert W. Gentry

LEASE

Wichita

WELL NO.

21-8

JOB TYPE

MT-Frac HT

DATE

12-8-88