

CURTON

JOB SUMMARY 4239-1

TICKET # 45826 TICKET DATE 9-28-98

America

AW/COUNTRY Rockies USA

BDA / STATE Colorado

COUNTY Weld

80866

EMPLOYEE NAME Jim E. Brady

PSL DEPARTMENT Production Enhancement

CUSTOMER REP / PHONE Rebecca Gutz

API / UWI #

JOB PURPOSE CODE Himgel 646

Shotwell, CO

ST AMOUNT 803.47

WELL LOCATION Prokham

LEASE / WELL # Oster 13-22

COMPANY HS Resources

WELL TYPE Gas

DEPARTMENT 5005

SEC / TWP / RNG 22 4N 65W

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
19 v7 133			
See Attached Sheet			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
141 Trk/Trl	60						
2 pick-up							
See Attached Sheet							

Form Name Cocell Type: Gas
 Form Thickness 11 From 7129 To 7140
 Packer Type - Set At -
 Bottom Hole Temp. - Pressure -
 Misc. Data - Total Depth -

DATE TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
9-28-98	9-28-98	9-28-98	9-28-98	9-28-98
-	-	1330	1500	1930

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U	11.6	2 3/8	0	7129	5500
Liner						
Liner						
Tbg/D.P.	U	4.7	4.5	0	6768	5500
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations				7129	7140	2
Perforations						
Perforations						

MATERIALS

	Density	Lb/Gal
Treat Fluid <u>Prokham</u>	<u>8.33</u>	
Disp. Fluid <u>Water</u>	<u>8.33</u>	
Prop. Type <u>Bulk</u>	Size <u>20/40</u>	Lb. <u>2601</u>
Prop. Type <u>Bulk</u>	Size <u>100 mesh</u>	Lb. <u>5000</u>
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant <u>550-21</u>	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent <u>VI</u>	Gal/Lb <u>1035</u>	In
Fric. Red.	Gal/Lb	In
Breaker <u>Opt III</u>	Gal/Lb <u>418</u>	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other <u>Opt II</u>	<u>15</u>	<u>Losurf</u> <u>66</u>
Other <u>Sp</u>	<u>20</u>	<u>Cl-23</u> <u>67</u>
Other <u>CBW-3</u>	<u>33</u>	<u>Cl-29</u> <u>29</u>
Other <u>Gel-57A</u>	<u>550</u>	<u>BA-2</u> <u>275</u>

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
9-28-98	7	9-28-98	4	Load & Break Pack 100 mesh, 5 pps Spacer 1 pps 20/40 5LF 2 pps " " " 3 " " " 4 " " " 5 " " " 4 " " "
TOTAL	7	TOTAL	4	Flush

HYDRAULIC HORSEPOWER
 Avail. 4000 Used 1640
AVERAGE RATES IN BPM
 Disp. 17 Overall 17
CEMENT LEFT IN PIPE
 Reason

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL

Circulating Displacement 4195 gal Preflush: Gal - BBI 91 Type KCL
 Breakdown 2841 Maximum 5356 100 mesh and Spacer Gal - BBI 238 Pad: BBI - Gal 238
 Average 4540 Frac Gradient 5 min Treatment Gal - BBI 1690 Disp: BBI - Gal 99
 Shut In: Instant 3937 5 Min 15 Min Cement Slurr Gal - BBI 476
 Total Volume Gal - BBI 2832

Frac Ring #1 | Frac Ring #2 | Frac Ring #3 | Frac Ring #4
 THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER'S REPRESENTATIVE SIGNATURE