

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 1503-9133 DATE 1/15/94
 STAGE DS DISTRICT Vernal, Utah 1503

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. Fed Blue Gravel 6-35
 LOCATION (LEGAL) Sec T R
 FIELD-POOL Blue Gravel
 FORMATION Lower Lewis PTH
 COUNTY/PARISH Moffat STATE Colorado API. NO.
 NAME Grynburg
 AND
 ADDRESS
 ZIP CODE



RIG NAME: Elenburg 15
 WELL DATA: BIT SIZE 7 7/8 CS/Liner Size
 TOTAL DEPTH 533 WEIGHT
 ROT CABLE FOOTAGE
 MUD TYPE H₂O GRADE
 BHST 140 THREAD
 BHCT
 MUD DENSITY 9.1 LESS FOOTAGE SHOE JOINT(S)
 MUD VISC. — Disp. Capacity
 NOTE: Include Footage From Ground Level to Head In Disp. Capacity

SPECIAL INSTRUCTIONS Set #1 plug #1 from 3506 to 3628
 #2 from 2443 to 2543 ft #3 from 300 to 400 #4 0-50 Using G cement.
 Surface plug has 2% S-1 added

SHOE TOOL TYPE DEPTH
 TYPE DEPTH
 TYPE DEPTH
 Head & Plugs TBG D.P. SQUEEZE JOB
 Double SIZE 4 1/2
 Single WEIGHT 16.6 TOOL TYPE DEPTH
 Swage GRADE TAIL PIPE: SIZE DEPTH
 Knob Off THREAD IF TUBING VOLUME Bbls
 TOP OR NEW USED CASING VOL. BELOW TOOL Bbls
 BOT OR DEPTH 3628 TOTAL Bbls
 ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE 3784 PSI CASING WEIGHT - SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT 1000 PSI BUMP PLUG TO PSI
 ROTATE RPM RECIPROCAT FT No. of Centralizers

TIME SCHEDULED FOR ARRIVE ON LOCATION LEFT LOCATION
 TIME: 2330 DATE: 1/15/94 TIME: 2330 DATE: 1/15/94 TIME: 0615 DATE: 1/16/93

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION			LEFT LOCATION		
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE	TIME	DATE
2000 to 2400													
0115													
0124		360	5	-	4	F/W	8.3						
0126		360	8	5	4	slurry	15.8						
0128		230	1.7	13	4	F/W	8.3						
0129		230	46	14.7	4	mud	9.0						
0140		-	-	6.7	-	-	-						
0141													
0245		240	5	-	4	F/W	8.3						
0246		310	6.7	5	4	slurry	15.8						
0248		120	1.7	11.7	4	F/W	8.3						
0249		160	32.7	13.4	4	mud	9.0						
0259		-	-	46.1	-	-	-						
0300													
0505		240	5	-	4	F/W	8.3						
0507		260	7.4	5	4	slurry	15.8						

REMARKS
 PRE-JOB SAFETY MEETING rig up Dowell
 Safety meeting and rig up to well head
 Start pumping H₂O ahead
 Start pumping slurry @ 15.8 ppg
 Start pumping H₂O behind
 Start pumping mud displacement
 Shut down plug balanced
 wait to pull pipe to next plug
 Start pumping fresh water ahead
 Start pumping slurry @ 15.8 ppg
 Start pumping F/W behind
 Start pumping mud
 Shut Down plug Balanced
 wait to pull pipe to next plug
 start pumping F/W ahead
 Start slurry @ 15.8 ppg
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SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS			SLURRY MIXED	
						BBLs	DENSITY
1.	40	1.15	G cement			8	15.8
2.	33	1.15	G cement			6.7	15.8
3.	36	1.15	G cement			7.4	15.8
4.	25	1.15	G cement + 2% S-1 in mix H ₂ O			3.1	15.8
5.							
6.							

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. 360 MIN:
 RESISTION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO Bbls
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. Bbls TYPE OF WELL OIL STORAGE BRINE WATER
 GAS INJECTION WILDCAT
 Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE
 PERFORATIONS CUSTOMER REPRESENTATIVE DS SUPERVISOR
 TO TO Marty O'Mara Dennis E. Clepper



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TREATMENT NUMBER 1503-9133 DATE 1/15/94
 STAGE DS DISTRICT Vernal, Utah 1503

WELL NAME AND NO. Red Blue Gravel 6-35
 LOCATION (LEGAL) Sec 7 R
 FIELD POOL Blue Gravel
 FORMATION DTA
 COUNTY/PARISH Moffat STATE Colorado API. NO.
 NAME Grynburg
 AND
 ADDRESS

RIG NAME: Etenburg 15
 WELL DATA:
 BIT SIZE 7 7/8 CSG/Liner Size
 TOTAL DEPTH 5342 WEIGHT
 ROT CABLE FOOTAGE
 MUD TYPE 4.0 GRADE
 BHST 1.00 THREAD
 BHCT
 MUD DENSITY 5.0 LESS FOOTAGE SHOE JOINT(S)
 MUD VISC. Disp. Capacity

SPECIAL INSTRUCTIONS ZIP CODE
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NOTE: Include Footage From Ground Level To Head In Disp. Capacity
 Float TYPE DEPTH
 Shoe TYPE DEPTH
 Head & Plugs TBG B.D.P. SQUEEZE JOB
 Double SIZE 4 1/2 TOOL TYPE
 Single WEIGHT 16.6 DEPTH
 Swage GRADE
 Knockoff THREAD IF TAIL PIPE: SIZE DEPTH
 TOP NEW USED TUBING VOLUME Bbls
 BOT DEPTH 3628 CASING VOL. BELOW TOOL Bbls
 ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE 3788 PSI -- CASING WEIGHT * SURFACE AREA (3.14 * R²)
 PRESSURE LIMIT 1000 PSI BUMP PLUG TO
 ROTATE RPM RECIPROCATE FT No. of Centralizers PSI

TIME TO 2400	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR TIME: 11/15/94			ARRIVE ON LOCATION TIME: 2330 DATE: 1/15/94		LEFT LOCATION TIME: 0615 DATE: 1/16/94	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY				
2509	110		4.5	124	1.2	F/W	8.3				
2513			3.1	16.9							

SERVICE LOG-DETAIL
 PRE-JOB SAFETY MEETING Continued from Page 1
 Start pumping F/W displacement
 Shut Down Plug Balanced
 mix surface plug by hand by Rig crew
 job complete

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.			Continued from Page 1			
2.						
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE VOLUME
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST DENSITY PRESSURE MAX. 360 MIN.
 REAKDOWN PSI FINAL PSI DISPLACEMENT VOL. YES NO Cement Circulated To Surf. YES NO Bbls
 Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE TYPE OF WELL OIL GAS STORAGE BRINE WATER WILDCAT
 REFORATIONS TO TO TO TO CUSTOMER REPRESENTATIVE DS SUPERVISOR Dennis E. Larpe

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