

CEMENTING SERVICE REPORT

DS-496 PRINTED IN U.S.A.

DS DWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

15-06-3537

DATE

03/27/91

AGE

1

DS

DISTRICT

1506 Farmington, NM

WELL NAME AND NO

Riddle 1-27

LOCATION (LEGAL)

Sec 27 35N 8W

FIELD POOL

Basin Fruitland

FORMATION

none

COUNTY/PARISH

La Plata

STATE

Colorado

API. NO.

NAME J.M. Huber Corp.

AND 1900 W. Loop South

ADDRESS Suite 1600

Houston, Texas

ZIP CODE 77027

SPECIAL INSTRUCTIONS

Cmt 8 5/8" casing with 10 bbls

H₂O preflush followed by 61 bbls cmt. slurry.
Shutdown + drop plug (top W). Displace with
25 bbls H₂O, bump top plug to 390 psi, bleed
pressure + check float. Close in cmt.
head.

IS CASING/TUBING SECURED? ☒ YES ☐ NO

LIFT PRESSURE 179.61

PSI

CASING WEIGHT ÷ SURFACE AREA

10489# (3.14 x R²) 8.4

PRESSURE LIMIT

150

PSI

BUMP PLUG TO

390

PSI

ROTATE

no

RPM

RECIPROCATATE

no

FT

No. of Centralizers

5

RIG NAME:

Four Corners 4

WELL DATA:

BOTTOM

TOP

BIT SIZE 12 1/4

CSG/Liner Size

8 5/8

TOTAL DEPTH 440

WEIGHT

24

☒ PROT ☐ CABLE

FOOTAGE

437.06

MUD TYPE

GRADE

JE

☐ BHST

THREAD

8nd

MUD DENSITY 9.2

LESS FOOTAGE

393.99

MUD VISC.

Disp. Capacity

25

TOTAL

25

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

Float

TYPE

Insert AnnulFill

DEPTH

393.99

Type

DEPTH

SHOE

TYPE

Texas Pattern

DEPTH

437.06

Stage

Type

DEPTH

Head & Plugs

☐ TBG☐ D.P.

SQUEEZE JOB

☐ Double

SIZE

TYPE

☒ Single☐ WEIGHT

DEPTH

☐ Swage☐ GRADE

TAIL PIPE: SIZE

DEPTH

☐ Knockoff☐ THREAD

TUBING VOLUME

Bbls

TOP ☐ OR ☐ W☐ NEW ☐ USED

CASING VOL. BELOW TOOL

Bbls

BOT ☐ OR ☐ W

DEPTH

TOTAL

Bbls

ANNUAL VOLUME

Bbls

TIME

PRESSURE

VOLUME PUMPED bbl

JOB SCHEDULED FOR

TIME: ASAP DATE: 03/27

ARRIVE ON LOCATION

TIME: 2200 DATE: 3/27/91

LEFT LOCATION

TIME: 1700 DATE: 03/28/91

0001 to 2400

TBG OR D.P.

CASING

INCREMENT

CUM

INJECT RATE

FLUID TYPE

FLUID DENSITY

SERVICE LOG DETAIL

0510

0525

0527

0528

0531

0545

0547

0552

0556

0558

PRE-JOB SAFETY MEETING yes

Pressure test 15 lines

Bleed off pressure

Start pumping preflush

Start pumping slurry

Shut down, drop top plug

Start displacement

Lower rate

bump top plug

Bleed off pressure, check float

float did not hold

REMARKS

SYSTEM CODE

NO. OF SACKS

YIELD CU. FT/SK

COMPOSITION OF CEMENTING SYSTEMS

SLURRY MIXED

BBLs

DENSITY

345#

300

1.15

Glass G + 28 S-1 + 1/4 #1/sk 029

61

15.8

BREAKDOWN FLUID TYPE

VOLUME

DENSITY

PRESSURE

MAX. 390

MIN: 0

☐ HESITATION SQ☐ RUNNING SQ.

CIRCULATION LOST

☐ YES ☒ NOCement Circulated To Surf. ☒ YES ☐ NO

20 Bbls

BREAKDOWN

PSI

FINAL

PSI

DISPLACEMENT VOL.

Bbls

TYPE OF WELL

☐ OIL☒ GAS☐ STORAGE☐ INJECTION☐ BRINE WATER☐ WILDCATWashed Thru Perfs ☐ YES ☐ NO

TO

FT.

MEASURED DISPLACEMENT

☐ WIRELINE

PERFORMATIONS

CUSTOMER REPRESENTATIVE

DS SUPERVISOR

TO

TO

TO

TO

David A. Ponto 286761

J.M. HUBER CORPORATION

PIPE TALLY AND CEMENT RECORD

LEASE

RIDDLE

DATE 3-29-91

WELL NO.

6

COUNTY

LA PLATA

STATE

SIZE _____ WT. _____ GRD. _____ TYPE JT. _____ NO. JTS. _____ JT. NOS. _____ THRU _____ MAKE _____ FT. DEL. _____
 SIZE _____ WT. _____ GRD. _____ TYPE JT. _____ NO. JTS. _____ JT. NOS. _____ THRU _____ MAKE _____ FT. DEL. _____
 SIZE _____ WT. _____ GRD. _____ TYPE JT. _____ NO. JTS. _____ JT. NOS. _____ THRU _____ MAKE _____ FT. DEL. _____
 SIZE _____ WT. _____ GRD. _____ TYPE JT. _____ NO. JTS. _____ JT. NOS. _____ THRU _____ MAKE _____ FT. DEL. _____

NO.	LENGTH		NO.	LENGTH		NO.	LENGTH		NO.	LENGTH		NO.	LENGTH		NO.	LENGTH		NO.	LENGTH	
	FT.	HDS.		FT.	HDS.		FT.	HDS.		FT.	HDS.		FT.	HDS.		FT.	HDS.		FT.	HDS.
1	42	24	31	42	08	61	38	65	91			121			151			181		
2	41	84	32	42	17	62	42	12	92			122			152			182		
3	42	07	33	42	07	63	38	38	93			123			153			183		
4	42	32	34	40	90	64	42	12	94			124			154			184		
5	41	80	35	41	86	65	42	15	95			125			155			185		
6	42	17	36	42	19	66	42	08	96			126			156			186		
7	41	44	37	41	21	67	42	18	97			127			157			187		
8	42	23	38	41	80	68	42	19	98			128			158			188		
9	40	49	39	42	19	69			99			129			159			189		
10	42	11	40	42	12	70			100			130			160			190		
11	42	07	41	38	44	71			101			131			161			191		
12	43	10	42	35	10	72			102			132			162			192		
13	42	27	43	38	63	73			103			133			163			193		
14	41	92	44	42	26	74			104			134			164			194		
15	40	87	45	38	95	75			105			135			165			195		
16	41	83	46	42	17	76			106			136			166			196		
17	42	24	47	42	16	77			107			137			167			197		
18	42	23	48	40	70	78			108			138			168			198		
19	41	78	49	42	16	79			109			139			169			199		
20	42	30	50	41	81	80			110			140			170			200		
21	39	87	51	42	37	81			111			141			171			201		
22	42	10	52	42	15	82			112			142			172			202		
23	41	95	53	42	15	83			113			143			173			203		
24	42	23	54	41	83	84			114			144			174			204		
25	38	39	55	42	22	85			115			145			175			205		
26	42	45	56	41	89	86			116			146			176			206		
27	41	85	57	42	16	87			117			147			177			207		
28	42	15	58	41	95	88			118			148			178			208		
29	37	70	59	41	80	89			119			149			179			209		
30	41	81	60	42	31	90			120			150			180			210		
TOTAL	1249	82	1	1241	80		329	87												

NO. JTS. DELIVERED 68 NET FOOTAGE 2821.49

NO. JTS, RUN 51 NET FOOTAGE 2139.91

NO. JTS. NOT RUN* 1.7 GROSS FOOTAGE 686.51

NO. & INTERVAL OF SCRATCHERS 3 unit breaks 1962 1985 1582

NO. & INTERVAL OF CENTRALIZERS 23 @ 10' above sea 1-14 18 22 26 30 34 38 42 46

CEMENT BRAND Dowell SACKS 105 BLEND class G w/

0.6% D60 0.2% D136 1/4" #5/sk D29

CEMENT BRAND Dowell SACKS 240/50 BLEND Class G 65/35 poe

w/ 6% D20, 10% D44, 0.2% D65 1/4" #10 D29 tiled r/w 50x class h

REMARKS: FC @ 2108.67' DV TOOL @ 1564' w/ 20% G2L1

circ 1661 cont 2 ~~pages~~ 1st section. circ 8661 1/4# 1/2 oz

cont 2nd stage

* TRANSFER NO. BY

TO:

HUBER REPRESENTATIVE JOE WILBANKS

WT. GRD. NO. JTS.			LENGTH
17	355	51	2139 91
SHOE & COLLAR			2 08
MISC. ITEMS			1 78
SUB-TOTAL			2143 77
K.B. TO TOP C.H.			11 00
SETTING DEPTH			2154 77

J. M. HUBER CORPORATION

DAILY DRILLING REPORT

Well & No. Riddle #1-27 24-Hr. Period Ending 6 A.M. Date 3/31/91Depth: 2160 TD Activity at Rpt Time WOCFormation: Sd, Sh, Li, Anh, Redbed, Dolomite. Made In

Mud		Vis.	WL	Cake 32nd	CL PPM	pH	Sol	Oil	PV	YP	Gels	LCM		
Type	Wt.													
Bit No.	Size	Manufacturer	Type	Ser. No.	Jet Size			Depth In	Depth Out	Ftg.	Hrs.	Grade		
					1	2	3					T	B	C

Pump Press SPM Liner Size Stroke Length Wt. on Bit 1000 lbs. ROT RPM

No. DC OD ID Conn DP Size & Conn Other BHA Data:

Survey Depth	Angle	Survey Depth	Angle	Survey Depth	Angle	Survey Depth	Angle	Survey Depth	Angle

Hours

Activity For Previous 24 Hours In Chronological Order & Remarks

1/2	Running Csg	
3/4	Rig up cementers and circ.	
3/4	Cmt 1 st stage	
4	Circ	
1	Cmt 2 nd stage	
4	Nipple down BOP's set slips, clean mud tanks	
	Ran cond A Csg as follows.	
	37 Jts - 5 1/2", 17#, J-55, LT and C Csg	1553.32'
	Baker DV Tool -	1.78'
	13 Jts - " " " "	544.35'
	Baker FC -	.85'
	1 Jt " " " "	42.24'
	Baker FS -	1.23'
	Total	2143.77'
	+ KB	12.00'
	Less set above RL	1.00'
	Csg set at	2154.77'

DMC \$ 0 CMC \$ 30865 DWC \$ 29,700 TWC \$ 118,800DHC \$ CWC \$ Days from Spud 4

Hours	Activity For Previous 24 Hours In Chronological Order & Remarks
	<p>FC at 2110'. DV at 1564'. Cmt baskets 1962, 1985 and 1582'. Centrilizers 10' above shoe 1-14, 18, 22, 26, 30, 34, 38, 42, 46th collars. Cmt 1st stage w/ 105 5x Class "B" w/ 670 D-60, 270 D-136, 14[#]/5x D-129. Bumped plug 8:00 AM 3/30/91. Held - OK. Opened DV. Circ 1 bbl cmt from above DV. Circ 4 hrs. Cmt 2nd stage 240 5x Class "B" 65-35 Pozmix w/ 670 D-20, 1070 D-44, 270 D-65 and 14[#]/5x D-129. Tailed w/ 50 5x Class "B" w/ 270 Cacl and 14[#]/5x D-129. Circ 8 BBL's cmt to surface. Bumped plug at 1:00 PM 3/30/91. Closed DV. Held - OK. Rig Released 5:00 PM 3/30/91</p>

DAILY COST BREAKDOWN

Mud Additives Used

Service Companies

Additive	No. Sacks
Gel	
Salt Gel	
Lignite	
Caustic	
Soda Ash	
Hulls	
Fiber	
Lime	
Driscap	
Preservative	
Starch	
Benex	
Polyvis	
Paper	

Rig Cost — Footage	
Rig Cost — Daywork	1000
DMC	
Fuel Adj	30
5 1/2" Csg	14,660
Cmt (Dawell)	12,425
Trash Basket	\$150
Misc Cleanup	1000
Chemical/Tol:it (Bobs)	200
Consultant	200
Trailer	20
Today's Cost	29,685
Previous Cost	87,095
Total	\$118,780