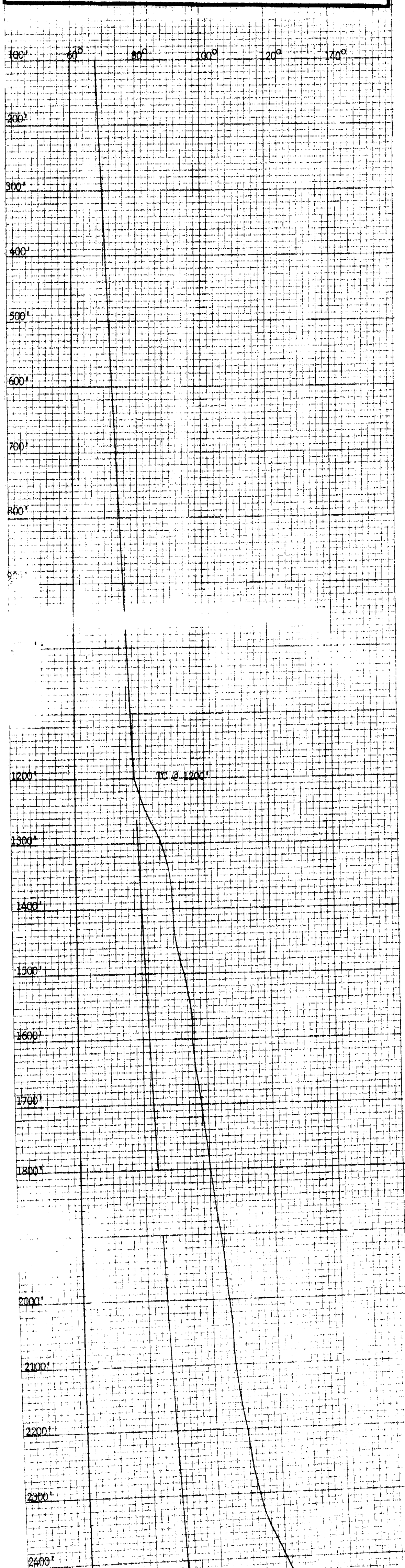


WILSON			
SERVICE COMPANY			
TEMPERATURE SURVEY			
COMPANY <u>Great Western Drilling Co.</u>			
WELL # <u>1</u>		LEASE <u>Mudge Gas Com E</u>	
COUNTY <u>San Juan</u>		STATE <u>New Mexico</u>	
SEC. <u>23</u>	TWP. <u>31N</u>	RGE. <u>11W</u>	
APPROX. TOP CEMENT <u>1200'</u>			
Survey Begins at <u>100'</u>		Ft. Ends at <u>2495'</u>	
Approx. Fill-Up		Max. Temp.	
Log Measured From <u>KB</u>		Run No. <u>1</u>	
Casing Size	Casing Depth	Diam of Hole	Depth
from <u>4 1/2"</u>	to	from	to
from	to	from	to
Date of Cementing <u>11-29-90</u>		Time <u>8:15 A.M.</u>	
Date of Survey <u>11-29-90</u>		Time <u>6:00 P.M.</u>	
Amount of Cement		As Per Report	
Recorded by <u>Anderson</u>		Witnessed by	
REMARKS OR OTHER DATA			
TEMPERATURE IN DEGREES FAHRENHEIT			



11-26-90 DAY 3

NIPPLING UP, TAGGED TOP OF CEMENT @ 48' W/1" TUBING, PUMPED
50 SKS CLASS "B" CEMENT + 2% CACL₂, W.O.C. CEMENT 6' FROM SURFACE,
CEMENTED TO SURFACE W/7 SKS CLASS "B" CEMENT, W.O.C. NIPPLING UP
B.O.P. & CHOKE MANIFOLD, PRESSURE TESTED TO 600 PSI O.K., T.I.H.
TAGGED GOOD CEMENT AT 60', DRILLED CEMENT, DRILLED FORMATION TO
327' T.O.H. PICKUP ADDITIONAL COLLARS, T.I.H. MIST DRILLING SAND
& SHALE TOTCO @ 500' 3/4", MIST DRILLED TO 855'.

24 HOURS DOUBLE DERRICK UNIT W/4 MAN CREW @ \$160.00/HR.....	\$ 3,840.00
1 - 3 1/2" DRILL RUBBER @ \$249.48/EA.....	\$ 249.48
44 GAL FOAMER @ \$8.19/GAL.....	\$ 360.36
9 SKS KCL @ \$5.23/SK.....	\$ 47.07
57 SKS CEMENT @ \$6.67/SK.....	\$ 380.19
3 SKS CACL ₂ @ \$25.90/SK.....	\$ 77.70
4 HOURS 2 1/2 TON TRUCK @ \$40.50/HR (TRUCKING CEMENT).....	\$ 162.00

RENTALS

10 - 6" O.D. DRILL COLLARS @ \$17.00/DAY/COLLAR.....	\$ 170.00
555' - 3 1/2" I.F. DRILL COLLARS @ \$.09/FT/DAY.....	\$ 49.95
1 - 400 BBL. FRAC TANK @ \$13.00/DAY.....	\$ 13.00
1 - DAY GRANT ROTATING HEAD @ \$25.00/DAY.....	\$ 25.00
1 - DAY AIR PACKAGE @ \$1,000.00/DAY.....	\$ 1,000.00

11-27-90 DAY 4

MIST DRILLING, TOTCO @ 1000' 1 1/2°, 1500' 1°, 2000' 1/2°, MIST
DRILLING SAND & SHALE TO 2135' COAL, MIST DRILL TO 2580' T.D.
CLEANED HOLE.

24 HOURS DOUBLE DERRICK UNIT W/4 MAN CREW @ \$160.00/HR.....	\$ 3,840.00
143 GAL. FOAMER @ \$8.19/GAL.....	\$ 1,171.17
43 SKS KCL @ \$5.23/SK.....	\$ 224.89

RENTALS

10 - 6" O.D. DRILL COLLARS @ \$17.00/COLLAR/DAY.....	\$ 170.00
2280' - 3 1/2" I.F. DRILL PIPE @ \$.09/FT/DAY.....	\$ 205.20
1 - 400 BBL. FRAC TANK @ \$13.00/DAY.....	\$ 13.00
1 - DAY GRANT ROTATING HEAD @ \$25.00/DAY.....	\$ 25.00
1 - DAY AIR PACKAGE @ \$1,000.00/DAY.....	\$ 1,000.00

RECEIVED JAN - 2 1991



REMIT TO:

P O BOX 898788
DALLAS TX 75389-8788

INVOICE

763132

GREAT WESTERN DRILLING COMPANY

2550 LA PLATA HIGHWAY
FARMINGTON NM 87401CEMENTING
CEMENT PRODUCTION

SEC. 23 - 31N - 31W

11/29/90

D.E. BAXTER

ITEM CODE	DESCRIPTION	UOM	QTY	LIST PRICE	LIST AMOUNT	% OFF	NET PRICE	NET AMOUNT
102871030	CSNG CMNT 2501-3000' 1ST BHR	BHR	1	1,420.0000	1,420.00	18.0	1,164.4000	1,164.40
048601000	CEMENT HEAD RENTAL	JOB	1	60.0000	60.00	18.0	49.2000	49.20
049102000	TRANSPORTATION CMNT TON MILE	MI	287	.8000	229.60	18.0	.6560	188.27
049100000	SERVICE CHG CEMENT MATL LAND	CFT	581	1.1500	668.15	18.0	.9430	547.88
059697000	PACR TREAT ANALYSIS RECORDER	JOB	1	125.0000	125.00	18.0	102.5000	102.50
040007000	D907, CEMENT CLASS G	CFT	200	8.1500	2,282.00	18.0	6.6830	1,871.24
045011000	D48, LITEPOZ 6 EXTENDER	CFT	70	3.6000	252.00	18.0	2.9520	206.64
045014050	D20, BENTONITE EXTENDER	LBS	984	.1500	147.60	18.0	.1230	121.03
045017004	D72, EXTENDER	CFT	213	3.0500	649.65	18.0	2.5010	532.71
067005100	S1, CALCIUM CHLORIDE	LBS	492	.3400	167.28	18.0	.2788	137.17
044006050	D59, FLAC FLUID LOSS ADDITIV	LBS	70	9.1500	640.50	18.0	7.5030	525.21
101825050	D136, FLAC FLD LOSS ADDITIVE	LB	28	13.3000	372.40	18.0	10.9060	305.37
047007050	D65, TIC DISPERSANT	LBS	56	4.5500	254.80	18.0	3.7310	206.94
045041100	D79, CHEMICAL EXTENDER	LBS	35	1.2500	43.75	18.0	1.0250	35.98
056702044	PLUG CENG 4-1/2" TOP PLASTIC	EA	1	42.0000	42.00	18.0	34.4400	34.44
050200002	MILEAGE, ALL OTHER EQUIPMENT	MI	17	2.6500	45.05	18.0	2.1730	36.94

7,359.78 18.0 SUB TOTAL -- 6,067.82

S C STATE TAX ON

6,067.82 365.59

C L F LOCAL TAX ON

6,067.82 41.51

AMOUNT DUE -- 6,414.92

RECEIVED DEC - 4 1990

AFE# 699
DJB

WITH QUESTIONS CALL 505-325-5096

FEDERAL TAX ID # 38-239-7173

TERMS -- NET 30 DAYS DUE ON OR BEFORE DEC 30, 1990

THANK YOU. WE APPRECIATE YOUR BUSINESS.

J. E. GODDARD



REMIT TO: P O BOX 890788
DALLAS TX 75389-0788

INVOICE

763132
GREAT WESTERN DRILLING COMPANY
2550 LA PLATA HIGHWAY
FARMINGTON NM 87401

CEMENTING
CEMENT SURFACE C

TO: (CUSTOMER)		SERVICE FROM: (LOCATION)	SHIPPED VIA:	CUSTOMER P.O. NUMBER
NM		SAN JUAN	FARMINGTON NM	
DATE OF SERVICE ORDER			CUSTOMER'S AUTHORIZED REPRESENTATIVE	
DEC 23 - 131N - RTTU			11/25/90 D.E. BAXTER	

ITEM CODE	DESCRIPTION	UOM	QTY	LIST PRICE	LIST AMOUNT	% OFF	NET PRICE	NET AMOUNT
102871003	CSNG CMNT-LND DPTH CHG 0-300	FT	1	620.0000	620.00	18.0	508.4000	508.40
049102000	TRANSPORTATION CMNT TON MILE	MI	278	.8000	222.40	18.0	.6560	182.37
049100000	SERVICE CHG CEMENT MATL LAND	CFT	264	1.1500	303.60	18.0	.9430	248.95
059697000	PACR TREAT ANALYSIS RECORDER	JOB	1	125.0000	125.00	18.0	102.5000	102.50
040007000	D907, CEMENT CLASS G	CFT	250	8.1500	2,037.50	18.0	6.6830	1,670.75
045014050	D20, BENTONITE EXTENDER	LBS	300	.1500	45.00	18.0	.1230	36.90
067005100	S1,CALCIUM CHLORIDE	LBS	854	.3400	290.36	18.0	.2788	238.10
044003025	D29, CELLOPHANE FLAKES	LBS	62	1.4500	89.90	18.0	1.1890	73.72
059200002	MILEAGE, ALL OTHER EQUIPMENT	MI	23	2.6500	60.95	18.0	2.1730	49.98
					3,794.71	18.0	SUB TOTAL --	3,111.67
S C	STATE TAX ON						3,111.67	155.58
S L C	LOCAL TAX ON						3,111.67	23.34
							AMOUNT DUE --	3,290.59

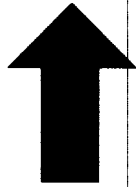
AFE # 659
DDB

RECEIVED NOV 20 1990

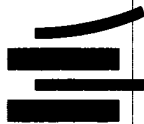
WITH QUESTIONS CALL 505-325-5096
FEDERAL TAX ID # 38-239-7173
TERMS -- NET 30 DAYS DUE ON OR BEFORE DEC 25, 1990

THANK YOU. WE APPRECIATE YOUR BUSINESS.

J. E. GODDARD
J E GODDARD



LTR



Job separation sheet

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.	30-045-27905
5. Indicate Type of Lease	STATE ☐ FEE ☒
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name	
Mudge Gas Com "E"	
8. Well No.	1
9. Pool name or Wildcat	Basin Fruitland Coal

SUNDRY NOTICES AND REPORTS ON WELLS DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☐ Coal Seam ☒ OTHER ☐	
2. Name of Operator GREAT WESTERN DRILLING CO.	
3. Address of Operator 2550 La Plata Hwy, Farmington, NM 87401	
4. Well Location Location: E 1830 Feet From The South Line and 810 Feet From The West Line Section 23 Township 31N Range 11W NMPM San Juan County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 5744' GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ TEMPORARILY ABANDON ☐ PULL OR ALTER CASING ☐ OTHER ☐	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ COMMENCE DRILLING OPNS. ☐ CASING TEST AND CEMENT JOB ☒ OTHER: ☐

12. Describe the proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. SEE RULE 1103.)

11-26-90 Spud 12 1/2" hole @ 9:30 A.M. 11-25-90. Ran 6 jts. 8-5/8" 23# 8rd ST&C LS csg. total of 253' set @ 263'. Cemented w/278 cu. ft. class "B" + 3% CaCl2 w/1/4# cel-flake added per sx. Plug down @ 10:30 P.M. cement did not circulate WOC 4 hrs. Ran 1" I.J. tubing, tag hard cement @ 48', pump 59 cu. ft. class "B" + 2% CaCl2 w/rig mixer. WOC 2 hrs. Cement down 6' below surface mix 7 sx and bring cement to surface.

11-30-90 TD @ 2580', Ran 59 jts. 4 1/2" 10.5# J-55 8rd ST&C csg. total of 2563' set @ 2572', cemented w/200 sx 65/35 posmix + 6% gel + 3% CaCl2 + 1 cu. ft. perlite per sx added, followed w/150 sx class "G" (total of 581 cu. ft.) Plug down @ 8:15 A.M. 11-29-90 good circulation throughout job. WOC 9 hrs. ran temperature survey. found top of cement @ 1200' got bottom inside of 4 1/2" csg. tag old cement @ 1204', pump 148 cu. ft. 65/35 posmix + 12% gel, pull and lay down 15 joints. Pump 148 sx 65/35 posmix + 12% gel, cement to surface w/106 cu. ft. pumped. total 254 cu. ft. Pull and lay down 1".

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE: D. E. Baxter TITLE: Area Supervisor DATE: 1-15-91

TYPE OR PRINT NAME

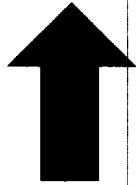
TELEPHONE NO.

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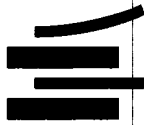
Original Signed by FRANK T. CHAVEZ

APPROVED BY: _____ TITLE: SUPERVISOR DISTRICT # 2 DATE: JAN 16 1991

CONDITIONS OF APPROVAL, IF ANY:



LTR



Job separation sheet

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-045-27905
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Mudge Gas Com "E"
8. Well No. 1
9. Pool name or Wildcat Basin Fruitland Coal
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 5744' GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL ☐ GAS WELL ☐ OTHER Coal Seam
2. Name of Operator GREAT WESTERN DRILLING CO.
3. Address of Operator 2550 La Plata Hwy, Farmington, NM 87401
4. Well Location Unit Letter L : 1830 Feet From The South Line and 810 Feet From The West Line Section 23 Township 31N Range 11W NMPM San Juan County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
OTHER: ☐	PLUG AND ABANDONMENT ☐
	CASING TEST AND CEMENT JOB ☒
	OTHER: Perforate & Frac ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

12-20-90 L & M Ventures test 4 1/2" casing to 4000# for 1/2 hr. held o.k.
2-17-91 Blue Jet perforate 4 1/2" casing.
2-19-91 Western Co. frac Fruitland Coal w/397,320 gals fresh slick water
& 127,000 100 mesh sand.

RECEIVED
MAR 13 1991
OIL CON. DIV.
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE D. E. Baxter TITLE Div. Superintendent DATE 3-12-91
TYPE OR PRINT NAME TELEPHONE NO.

(This space for State Use)

APPROVED BY Original Signed by FRANK T. CHAVEZ TITLE SUPERVISOR DISTRICT # 3 DATE MAR 13 1991
CONDITIONS OF APPROVAL, IF ANY: