



The Western Company—Treatment Report

311877

Date 5-10-95 District Farmington F. Receipt 311928 Operator JK Edwards
 Lease Chaco Well No. 4 Field Basin Fruitland Location 41-126K-R13W
 County San Juan State New Mexico Stage Number 1 This Zone ☒ This Well ☒

WELL DATA OGI ☒ NGI ☐ NO ☐ OO ☐ WD ☐ IW ☐ Misc. ☐ Depth 10750 Formation Fruitland Coal
 Tubing Size 2 3/8" WT. 6.5# Set at: _____ Type Packer _____ Set At _____
 Casing Size _____ WT. _____ Set From _____ To _____ Liner Size _____ Wt. _____
 Liner Set From _____ To _____ Open Hole: Size _____ From _____ To _____ Casing Perforations: Size _____
 Holes Per Foot _____ Intervals 1163-1189 120 holes
 Previous Treatment _____ Prior Production _____

TREATMENT DATA Pad Used: Yes ☐ No ☐ Pad Type 20# I-4 linear @ 200 ft
 Treating Fluid Type: Foam ☒ Water ☐ Acid ☐ Oil ☐ Treat. Fluid Vol. 32850 Gal.
 Base Fluid Type H₂O @ 270 KCL Base Fluid Vol. 9198 Gal.
 Foam Qual.: 70 % Mitchell ☒ Slurry ☐ Surface ☐ Downhole ☒ Total Prop Qty. 35000 Lbs.
 Prop Type: Sand ☒ WP-1 ☐ WP-3 ☐ Baux. ☐ Other _____
 Prop Mesh Sizes, Types and Quantities 35000 #20-40 Arizona
 Hole Loaded With _____ Treat Via: Tubing ☐ Casing ☐ Anul. ☐ Tubing & Anul. ☐
 Ball Sealers: _____ In _____ Stages of _____
 Types and Number of Pumps Used 2 BH Pacesetter 1000' (3 BH 12K W2)
 Auxiliary Materials 55 gal Frac Fan I / 6 # Frac. acid 20/200 # I-4
10# B-11 Pumped as follows: 7650 pad / 5000 gal 2# / 6700
gal 1# / 7950 gal 2# / 3300 gal 3# / 250 gal Flush

LIQUID/GAS PUMPED AND CAPACITIES IN BBLS.

Tubing Cap. 6.7
 Casing Cap. _____
 Annular Cap. _____
 Open Hole Cap. _____
 Fluid to Load _____
 Pad Volume 55
 Treating Fluid 199
 Flush 6
 Overflush 0
 Fluid to Recover 219
 Total N₂ 199,000
 Total CO₂ _____

PROCEDURE SUMMARY

Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLS. Pumped		Slurry Rate BPM	Surface CO ₂ BBLS. Pumped		CO ₂ Rate BPM	Surface N ₂ MSCF Pumped		N ₂ Rate SCFM	Comments
	STP	Annulus	Stage	Total		Stage	Total		Stage	Total		
2:00	4500							1410				Pyram v. 1/2 #
12:09								960	39 K	0	0-6000	Pad
12:16	1230		55		7.5			818	27 K	39 K	5500	1/2 #
12:22	1300		38	93	7.9			940	41 K	66 K	5400	1 #
12:28	1520		55	148	8.3			1100	63 K	107 K	7200	2 #
12:35	2280		74	222	7.6			1850	29 K	130 K	11600	3 # 30 bpm DNAL
12:38	2100		32	254	11.5			1900	0	194 K	11500	Flush (cut N ₂)
12:39	1700		6	260	20							Shut in
												1510=600
												5 min = 990
												10 min = 930
												15 min = 370
												30 min =
												60 min =

Treating Pressure: Min. 1230 Max. 2530 Avg. 1750 Customer Representative Paul Thompson
 Inj. Rate on Treating Fluid 25-30 bpm Rate on Flush 20 Western Representative Bill Walk
 Avg. Inj. Rate 26 I.S.D.P. 600 Flush Dens. lb./gal. 8.33 Distribution Normal
 Final Shut-in Pressure _____ in _____ Minutes
 Operator's Maximum Pressure 3000 psi

Job Number _____

Recommendation ID # _____

[illegible]

[illegible]

ISSUED BY JS DATE 5/10/95 RECEIVED BY JR DATE 5-10
APPROVAL Mark Knight
OPERATIONS SUPERVISOR

District	Farmington		Dist. No.			Job No.	149.3		Same As Job No.			
Field Receipt	1.	2.	3.	4.	5.	6.						
Order Taken By	Billie Ferrell				Time	Date		Operator P.O. No.				
Order Placed By	Paul Thompson				Phone		Credit Number					
Company	J.K. Edwards				Lease Name & No.		Chaco #4					
Job Instructions												
Foam Frac 25 BPM 6873 SCFM												

Fluid Type:																															
01 ☐ Oil-Water Emul.	08 ☐ Gelled Oil	15 ☐ Clay Stab.	Proppent:			Press (PSI)			Vol (Gall):			Well:																			
02 ☐ Oil-Acid Emul.	09 ☐ Other Oil	16 ☐ Flow Control	1 ☐ Sand	2 ☐ 3001 - 5000	1 ☐ 0 - 1500	1 ☐ New	03 ☐ Acid 0 - 10%	10 ☐ X-Linked Water	17 ☐ Super Frec	2 ☐ 5001 - 6000	2 ☐ 1501 - 5000	2 ☐ Rework	04 ☐ Acid 10.1 - 20%	11 ☐ Gelled Water	18 ☐ Misc.	3 ☐ 6001 - 8000	3 ☐ 5001 - 20000	3 ☐ New Zone	05 ☐ Acid 20.1% & up	12 ☐ Other Water	4 ☐ 8001 - 10000	4 ☐ 20001 - 60000	4 ☐ Other	06 ☐ Gelled Acid	13 ☐ Foam	5 ☐ 10001 - 15000	5 ☐ 60001 - 100000	07 ☐ Other Acid	14 ☐ Scale Treat.	6 ☐ 15001 & up	6 ☐ 100001 & up
Gas:																															
1 ☐ CO ₂ 3 ☐ OTH																															
2 ☐ N ₂ 4 ☐ None																															

Date & Time Wanted	5/10/95	Total Depth	1150'	Type & Amount Material Needed	1 201, 720
Casing Size & Wgt.	2 7/8"	Oper. Max Press	3000		2
Tubing Size & Wgt.	—	Hole Size	—		3
Flush In	on location				4
Top Connection					5

Directions to Well: 64 to Truck Route T/L on Bisti Highway to Napi Headquarters T/L go south through 4 way to end of pavement T/R at 1st Road along fence line to T T/L go .1 mile T/L to Chaco #5 T/R go .3 mile T/L to #4 (see map)

Miscellaneous Information:

NAME	Yard Time	Unit 1	Unit 2	Service Engineer	Empl. No.	Unit	Act. Hrs.
Elledge K.		31306		Savage J.		D6141	
Lucky C.		31314					
Wasson C.		31311					
Charging							
				Rented Services		Left Last Job/Yard	
						Date	Time
				Total Off-road Mileage		Arrived Job	
						Date	Time
				BORROWED EQUIPMENT		Start Service	
						Date	Time
				Loaning District		Stop Service	
				Rendezvous		Date	Time
				Place			
				Time			
				Equip. Type		Arrived Next Job/Yard	
						Date	Time
						Speedometer Reading	
						End	
						Start	

DISTRICT Farmington DISPATCH SHEET NO. 149978 WELL NAME Chaco #4

CUSTOMER J. K. Edwards DATE OF JOB 5/10/95

ACCOUNT 24 FIELD RECEIPT NO. 31023 FIELD RECEIPT DATE 5/10/68

FIELD RECEIPT NO. 31004 FIELD RECEIPT DATE 5/1/68

PRODUCT DESCRIPTION	WIN	UOM	QUANTITY		QUANTITY RETURNED	NET USAGE	VERIFIED TO FIELD RECEIPT
			ORDERED	LOADED/ BLENDED			
J-4	499805	lbs	200	200		200	200
P-4	100095	lbs	30	50		50	50
B-11	100185	lbs	10	10		10	10
Frac Foam 1	100362	gals	50	69		55	55
Fracide	100406	#	6	6		6	6
20/40 ARIZONA	100013	lbs	35,000	35,000		35,000	35,000

ISSUED BY EA DATE 5/9/95 RECEIVED BY [Signature] DATE 5-09-95

APPROVAL Mark Knight
OPERATIONS SUPERVISOR

VOLUME CALCULATIONS
(SHOW ALL JOB CALCULATIONS BELOW)

A Supervisor must either prepare or verify this form

$$10,244 \times 20\# / 1000 = 200 \text{ lbs J-4}$$

$$10,244 \times 3\# / 1000 = 30 \text{ lbs P-4}$$

$$10,244 \times 1\# / 1000 = 10 \text{ lbs B-11}$$

$$10,244 \times 5\text{gal.} / 1000 = 50 \text{ gals Frac Foam 1}$$

CR
PREPARED BY

TITLE

VERIFIED BY

TITLE

STIMULATION DISPATCH SHEET

District	Farmington			Dist. No.				Job No.	149 8			Same As Job No.			
Field Receipt	1.	2.	3.	4.	5.	6.									
Order Taken By	Billie Ferrell				Time	Date		Operator P.O. No.							
Order Placed By	Paul Thompson				Phone			Credit Number							
Company	J.H. Edwards				Lease Name & No.			Chaco #4							
Job Instructions												Foam Frac 25BPM			

Fluid Type:

01 ☐ Oil-Water Emul.	08 ☐ Gelled Oil	15 ☐ Clay Stab.	Proppant:	Press (PSI)				Vol (Gall):				Well:			
02 ☐ Oil-Acid Emul.	09 ☐ Other Oil	16 ☐ Flow Control		1 ☐ Sand	1 ☐ 0 - 3000	1 ☐ 0 - 1500	1 ☐ New								
03 ☐ Acid 0 - 10%	10 ☐ X-Linked Water	17 ☐ Super Frac		2 ☐ Beads	2 ☐ 3001 - 5000	2 ☐ 1501 - 5000	2 ☐ Rework								
04 ☐ Acid 10.1 - 20%	11 ☐ Gelled Water	18 ☐ Misc.		3 ☐ Other	3 ☐ 5001 - 8000	3 ☒ 5001 - 20000	3 ☐ New Zone								
05 ☐ Acid 20.1% & up	12 ☐ Other Water	Gas:	4 ☐ None	4 ☐ 8001 - 10000	4 ☐ 20001 - 80000	4 ☐ Other									
06 ☐ Gelled Acid	13 ☐ Foam		1 ☐ CO ₂	5 ☐ 10001 - 15000	5 ☐ 60001 - 100000										
07 ☐ Other Acid	14 ☐ Scale Treat.		2 ☐ N ₂	6 ☐ 15001 & up	6 ☐ 100001 & up										
		3 ☐ OTH													
		4 ☐ None													

Date & Time Wanted	5/10/95	Total Depth	1150'	Type & Amount Material Needed	1 200 # J-4 6# Frac Cide
Casing Size & Wgt.	2 7/8"	Oper. Max Press	3000	2 30 # P-4	
Tubing Size & Wgt.		Hole Size	—	3 10 # B-11	
Flush In	on location			4 50 gals Frac Foam I	
Top Connection				5 35,000 lbs 20/40 ARIZONA	

Directions to Well: 64 to Truck Route T/L on Bisti Highway south to Napi Headquarters T/L go south through 4 way to end of pavement take 1st Right along fence line to T T/L go 1 mile to Chaco #5 T/R go 3 mile T/L to #4 (see map)

Miscellaneous Information:

NAME	Yard Time	Unit 1	Unit 2	Service Engineer		Empl. No.	Unit	Act. Hrs.
Shenefield		7344		Walker	B.		0604	
Smith L.		7433		Fitz	J.		3853	
Greenwell		1293		Rented Services		Left Last Job/Yard		
Gringo D.		1286				Date Time		
Schmitt G.		4641				Arrived Job		
Ward T.		4055		Total Off-road Mileage		Date Time		
Gustin D.		4063		BORROWED EQUIPMENT		Start Service		
				Loaning District	Rendezvous	Equip. Type	Date Time	
					Place Time		Stop Service	
							Date Time	
							Arrived Next Job/Yard	
							Date Time	
							Speedometer Reading	
							End	
							Start	

CC-0

SERVICE UNDER MINU
FIELD RECEIPT NO. L 311877

**The Western Company
of North America**

[illegible]

REPORT #: L311877 CUST #: 27340 - 000 CDE: 1314 DISC %: 35.00 STATUS: S

LINE	UNITS	DESCRIPTION	UNIT PRICE	GROSS
13	500.0	N2/100 SCF.1ST 50000 SCF.FARMINGTON.NM	1.890	945.00
13F	1490.0	NITROGEN CHARGES-FARMINGTON NM	1.840	2741.60
14	20.0	MILEAGE. AUTO/PICK-UP/TREATING VAN	1.800	36.00
17	60.0	MILEAGE. HEAVY VEHICLE. PER UNIT	2.950	177.00
100	3.0	LOW RATE N2 PUMP. 0 - 5000 PSI	1110.000	3330.00
186	1.0	N2 TARGET FLOWMETER	290.000	290.00
15	1.0	SERVICE CHARGE. HEADER AND VALVE	390.000	390.00

TO=FORWARD PF07=FIRST PAGE ENTER=UPDATE (STATUS=S SUMMARY) PAGE: 1
Y)

***** FIELD RECEIPT SUMMARY *****

IST # 27340 - 000	CC #: 1314	FR#: L311877	STATUS: S
MC: J. K. EDWARDS ASSOCIATES, INC.	WELL: CHACO #4		
ROU REVENUE: 3686.60	PURCHASE ORDER #:		
EQUIP REVENUE: 4223.00	PROPOSAL NUMBER :		
GROSS REVENUE: 7909.60	HOW TO PRINT?...: E EXTENDED		
=== ACCRUED DISCOUNTS ===			
LINE DISCOUNTS APPLY? N	REG:	.00	.00
SALES CON: 2768.36 35.00	JQ:	.00	.00
JQ CON: .00 .00			
BID CON: .00 .00			
DIST CON: .00 .00			
TOTAL CON: 2768.36 35.00	===== WARRANTY INFORMATION =====		
NET REVENUE: 5141.24	WERE WE READY TO PUMP?		
TAX AMOUNT: 305.29	WERE WE PROFESSIONAL?		
ROY AMOUNT: .00	DID EQUIPMENT PERFORM OK?		
	DID WE DO WHAT WE AGREED TO?		
	AMOUNT OF CREDIT REQUESTED...		
	===== BILLING INSTRUCTIONS =====		
TOTAL: 5446.53			
=====			



SERVICE ORDER AND
FIELD RECEIPT NO. L 311877

UDNA 1158 1091 25M



JOE PERFORMANCE REPORT

District Date Field Receipt Number Customer Name Well Name

Stimulation: ☒ Fracture ☐ Acid ☐ Sand Control ☐ Misc. Pump Cement: ☐ Land ☐ Offshore ☐ Marine ☐ T.O.B.
Gas: ☒ N₂ ☐ CO₂ ☐ Binary ☐ Tools ☐ Surface ☐ Int./Long ☐ Squeeze ☐ Other

Customer Rep. Reaction: ☒ Pleased ☐ Neutral ☐ Displeased ☐ Not on JobWas there a problem on this job? ☐ Yes ☒ No (If NO checked, do not complete form further)**A. RTS PERFORMANCE**

- 01 ☐ Under 1 Hour Late
02 ☐ 1-4 Hours Late - No. Hours
Late
03 ☐ Over 4 Hours Late - No. Hours
Late

Cause:

- 04 ☐ Borrowed Equip/Labor Late
05 ☐ Delay on Prior Job
06 ☐ District Personnel Late on Yard
07 ☐ Equipment Failure on Location
08 ☐ Equipment Failure on Way to Location
09 ☐ Equipment Failure on Yard
10 ☐ Hotshot Trip
11 ☐ Lost Way to Location
12 ☐ Outside Service Late
13 ☐ Poor Communications
14 ☐ Products Problem
15 ☐ Road/Location Conditions
16 ☐ Wait on Customer Rep
17 ☐ Other

B. PRODUCT PERFORMANCE

- 01 ☐ Additive Incorrect/Not Used
02 ☐ Bad Water
03 ☐ Contamination
04 ☐ Defective Material
05 ☐ Freezing
06 ☐ Incorrect Base Material
07 ☐ Incorrect Mixture
08 ☐ PH
09 ☐ Total Sand Does Not Match
What Was Pumped
10 ☐ Viscosity
11 ☐ Volume of Fluid/Additives
Recorded Does Not Match
What Was Pumped
12 ☐ Product Code

13 ☐ Other

C. JOB PROCEDURE

- 01 ☐ Cemented Csg/Tbg
02 ☐ HP/Rate Requirements
03 ☐ Improper Slurry Density
04 ☐ Job Interruption
05 ☐ No Returns
06 ☐ Plug Not Bumped
07 ☐ Screenout
08 ☐ Other

Cause:

- 09 ☐ Equipment Failure
10 ☐ Human Error
11 ☐ Inadequate Job Design
12 ☐ Insufficient Material
13 ☐ Product Failure
14 ☐ Well Conditions
15 ☐ Other

D. EQUIPMENT

- 01 ☐ Acid Frac/Pump
02 ☐ Batch Mixer
03 ☐ Blender
04 ☐ Bulk Truck
05 ☐ Cement Pump
06 ☐ Chem Add
07 ☐ Field Bin
08 ☐ Frac Pump
09 ☐ Goose
10 ☐ Line Truck
11 ☐ N₂ Pump
12 ☐ N₂ Transport
13 ☐ Q.C. Lab Van
14 ☐ SPC/CMG
15 ☐ Sand Conveyor
16 ☐ Sandmaster
17 ☐ Sand Truck/Air Can
18 ☐ TMV
19 ☐ Tractor
20 ☐ Transport Cement
21 ☐ Transport Liquid
22 ☐ Van/Pickup
23 ☐ Other

E. EQUIPMENT PERFORMANCEProblem Unit(s) **Fluid End:**

- 01 ☐ Fluid End Block
02 ☐ Manifold
03 ☐ Packing
04 ☐ Valve
05 ☐ Other

Pumping Equipment:

- 06 ☐ Engine
07 ☐ Hydraulics
08 ☐ Power End
09 ☐ Supercharge/Mix Pump
10 ☐ Transmission
11 ☐ Vaporizer
12 ☐ Other

Mixing Equipment:

- 13 ☐ Agitator
14 ☐ Chemical Pump
15 ☐ Dry Chemical Feed
16 ☐ Electrical
17 ☐ Engine
18 ☐ Hydraulic/Air Hoses
19 ☐ Hydraulics
20 ☐ OSHA Air Valves
21 ☐ Recirculating Cement Mixer
22 ☐ Sand Ramp
23 ☐ Sandscrews
24 ☐ Suction/Supercharge Pump
25 ☐ Transmission
26 ☐ Tub Level
27 ☐ Other

Instrumentation/Monitoring:

- 28 ☐ Cables/Connections
29 ☐ Closed Loop Controllers
30 ☐ Densimeter
31 ☐ Flow Meter
32 ☐ Martin Decker
33 ☐ Model "C"
34 ☐ Modem Data Line
35 ☐ Printer/Plotter
36 ☐ Software
37 ☐ Transducer
38 ☐ Viscometer
39 ☐ WestComp
40 ☐ WestFrac III
41 ☐ WestFrac IV
42 ☐ WestView
43 ☐ Other

Miscellaneous:

- 44 ☐ Air Blower
45 ☐ Ball Injector
46 ☐ Cement Head
47 ☐ CO₂ Booster
48 ☐ Failed Line/Fitting
49 ☐ Hydraulic Power Pack
50 ☐ Pressure Relief Valve
51 ☐ Stake Bed
52 ☐ Suction Manifold Trailer
53 ☐ Wellhead Protector
54 ☐ Other

F. OTHER PROBLEMS

- 01 ☐ Accident
02 ☐ Communications System
03 ☐ Connection/Valve Leak
04 ☐ No Ball Out
05 ☐ Personal Injury
06 ☐ Remote Data Transmission
07 ☐ Other

Brief Explanation of Problem(s):

If product failure, list the trade name of the fluid used. Forward complete description, samples, and test data as per FIELD PROCEDURES MANUAL to WPS Research, Technical Lab Services

Service Supervisor: District Manager:

Well-Site Quality Control and Blend Schedule for Energized Fluids

(attachment to treatment report)

Operator: J K Edwards
Lease Name & Well No.: Chaco #4

Date: 5-10
Field Receipt No.: 311877

Note: Use additional copies of this form for more transports.

Liquid Phase: attach appropriate blend schedule(s), Q.C. report(s) and list type(s) _____

Type of liquified gas (circle one)? CO₂ 1 N₂

Liquified Gas:

transport/tank number	1	2	3	4	5	6	Quantity SCF(sft ³)
SCF (sft ³) loaded	126	1359	105.9				367800
minus SCF (sft ³) after job	66.6	66.6	35.6				168800
SCF (sft ³) used							199,000

pressure, psig(kPa)	before						
	after						
tank cap., gal(m ³)	before						
	after						
fraction containing liq.	before						
	after						
volume available, gallon(m ³)	before						
	after						
temperature, °F(°C)	before						
	after						
weight used, lbm(kg)							

Foaming Agent used?

list foaming agent tradename
loading

Yes/No

Foamer dilution required?

volume of foamer available
volume of diluent used
volume of diluted foamer
expected liquid phase pumping rate
pump rate for foamer

____ gal/100 gal. liq. phase

Yes/No

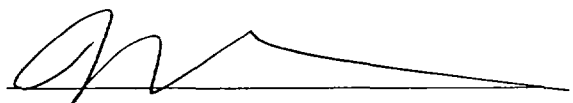
____ gallon or ____ m³
____ gallon or ____ m³
____ gallon or ____ m³
____ bbl/min or ____ m³/min
____ gal/min or ____ m³/min

Attachments:

Blend Schedule and Q.C. Report for liquid phase

WCNA 1518 5/93

Prepared by



our
3 CC

The Western Company of North America

VICE UNDER AND
FIELD RECEIPT NO.

311928

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[illegible]

**The Western Company
of North America**

SERVICE ORDER AND
FIELD RECEIPT NO. **L 311928**

CUSTOMER NAME J K Edwards				STREET OR BOX NUMBER 18576				CITY San Juan				STATE NM				ZIP CODE 87506				CREDIT APPROVAL NO. 				PURCHASE ORDER NO. 				CUSTOMER NUMBER 				INVOICE NUMBER 																																																																																															
INVOICE TO:																WESTERN SERVICE SUPERVISOR Bill Walker																WELL TYPE: 1 ☐ NEW 2 ☒ OLD																																																																																															
DATE WORK COMPLETED: 5/10/95				MO. DAY YEAR				JOB DEPTH (FT.) 1163				WELL CLASS: 1 ☐ OIL 2 ☒ GAS 3 ☐ INJECTION				DISPOSAL				JOB TYPE CODES																																																																																																											
WESTERN DISTRICT Thompson New Mexico																TD WELL DEPTH (FT.) 1163																GAS USED ON JOB: 1 ☒ N ₂ 2 ☐ CO ₂ 3 ☐ NONE 4 ☐ BINARY																TOOL SERVICES 50. TOOL SALE 51. TOOL RENTAL 52. TOOL REDRESS 53. TOOL SERVICE																																																																															
WELL LOCATION: 1-26W 13N																COUNTY San Juan																STATE NM																																																																																															
TUBING CODE J3216																DESCRIPTION 20/40 Ar Sand																UNIT OF MEASURE CWT																QUANTITY 39																LIST PRICE/UNIT 7.54																GROSS AMOUNT 294.06																PERCENT DISC. 																NET AMOUNT 191.14															
TUBING CODE J3058																DESCRIPTION Light Well Pump																UNIT OF MEASURE ea																QUANTITY 100																LIST PRICE/UNIT 7.50																GROSS AMOUNT 750.00																PERCENT DISC. 																NET AMOUNT 10210.18															
TUBING CODE J3006																DESCRIPTION TMU																UNIT OF MEASURE ea																QUANTITY 100																LIST PRICE/UNIT 1965.00																GROSS AMOUNT 1965.00																PERCENT DISC. 																NET AMOUNT 10210.18															
TUBING CODE E313F																DESCRIPTION 20/40 Ar Sand																UNIT OF MEASURE CWT																QUANTITY 39																LIST PRICE/UNIT 7.54																GROSS AMOUNT 294.06																PERCENT DISC. 																NET AMOUNT 191.14															
TUBING CODE 																DESCRIPTION 																UNIT OF MEASURE 																QUANTITY 																LIST PRICE/UNIT 																GROSS AMOUNT 																PERCENT DISC. 																NET AMOUNT 															
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TUBING CODE 																DESCRIPTION 																UNIT OF MEASURE 																QUANTITY 																LIST PRICE/UNIT 																GROSS AMOUNT 																PERCENT DISC. 																NET AMOUNT 															
TUBING CODE 																DESCRIPTION 																UNIT OF MEASURE 																QUANTITY 																LIST PRICE/UNIT 																GROSS AMOUNT 																PERCENT DISC. 																NET AMOUNT 															
TUBING CODE 																DESCRIPTION 																UNIT OF MEASURE 																QUANTITY 																LIST PRICE/UNIT 																GROSS AMOUNT 																PERCENT DISC. 																NET AMOUNT 															
TUBING CODE 																DESCRIPTION 																UNIT OF MEASURE 																QUANTITY 																LIST PRICE/UNIT 																GROSS AMOUNT 																PERCENT DISC. 																NET AMOUNT 															
TUBING CODE 																DESCRIPTION 																UNIT OF MEASURE 																QUANTITY 																LIST PRICE/UNIT 																GROSS AMOUNT 																PERCENT DISC. 																NET AMOUNT 															
TUBING CODE 																DESCRIPTION 																UNIT OF MEASURE 																QUANTITY 																LIST PRICE/UNIT 																GROSS AMOUNT 																PERCENT DISC. 																NET AMOUNT 															
TUBING CODE 																DESCRIPTION 																UNIT OF MEASURE 																QUANTITY 																LIST PRICE/UNIT 																																																															



THE UNIVERSITY OF CHICAGO

INVOICE NO.	OUR RECEIPT NO.	DATE
YOUR ORDER NO.		

SERVICES FROM OUR STATION AT FARMINGTON STATION	OUR ENGINEER SCOTT	SIGNED FOR YOU BY ROSE HARRISON	STATE MINN
FOR SERVICING WELL NAME LHACO #3		COUNTY ROSE BUSH	DATE APR 30

FEDERAL I.D. NO. C 75-0783484

[illegible]

PAY THE AMOUNT



WILLIAM D. B. BOX 91143
COLLO, N. Y. 12521-1543

W. GORDON GREENBERG, 1961
100 E 7TH STREET, BOSTON 100
MASSACHUSETTS 02107

INVOICE NO.	OUR RECEIPT NO.	DATE
		YOUR ORDER NO.

SERVICES FROM OUR STATION AT	OUR ENGINEER	SIGNED FOR YOU BY
PARNINGTON SULLIVAN	SAVAGE	PAUL THOMPSON
FOR SERVING WELL NAME		STATE
CHADCO #4	SEAN JAMES	MI 20

FEDERAL I.D. NO. C 75-0763484

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE/UNIT	GROSS AMOUNT	PERCENT DISC.	NET AMOUNT

PAY THIS AMOUNT

Figure 1 consists of 12 line drawings illustrating the development of a chick embryo. The drawings are arranged in two columns of six. The first column shows the early stages: 1. Fertilized egg, 2. Cleavage, 3. Gastrulation, 4. Somite formation, 5. Limb bud formation, 6. Head development. The second column shows the later stages: 7. Chickadee, 8. Chickadee, 9. Chickadee, 10. Chickadee, 11. Chickadee, 12. Hatched chick.

0303

CONA 1120 (10-91)

===== L311928 CUST #: 27340 - 000 CC#: 1314 DISC %: 35.00 STATUS: L =====

QTY	DESCRIPTION	U/M	PRICE	GROSS	DISC%	NET
H0756	P-11. GEL BREAKER	LB	12.750	127.50	35.00	82.88
H0856	FRAC-CIDE 20	LB	37.000	370.00	35.00	240.75
H2186	FRAC FOAM-1	GAL	26.950	1482.25	35.00	963.45
H0846	J-4. LOW RESIDUE GUAR G	LB	4.850	970.00	35.00	630.75
H1096	P-4. PH CONTROL	LB	3.050	152.50	35.00	99.13
J7416	DEL CHARGE. 1.5 TON UNI	MILE	1.800	36.00	35.00	23.40
J46068	PROPPANT CONCENTRATION	GAL	.040	140.00	35.00	91.00
J46268	PROPPANT CONCENTRATION	GAL	.190	456.00	35.00	296.40
J46368	PROPPANT CONCENTRATION	GAL	.250	247.50	35.00	160.88
E333E	SAND. STD BLK. 20/40. F	CWT	7.540	2639.00	35.00	1715.35
J4016	BULK MATERIAL DELIVERY.	TONMI	1.000	350.00	35.00	227.50
F30168	MASTER MIXER. 0 - 10	4HRS	995.000	995.00	35.00	646.75
F20168	FRAC PUMP. 0 - 500	4HRS	6.050	2802.36	35.00	1821.53
J3916	MILEAGE. AUTO/PICK-UP/T	MILE	1.800	36.00	35.00	23.40
J3906	MILEAGE. HEAVY VEHICLE.	MILE	2.950	295.00	35.00	191.75
J2186	MISCELLANEOUS BLENDING	HOURL	500.000	500.00	35.00	325.00

PF08=FORWARD PF07=FIRST PAGE ENTER=UPDATE PAGE: 1
OPT:

***** L I N E D I S C O U N T S *****

FIELD RCPT #: L311928 CUST #: 27340 - 000 CC#: 1314 DISC %: 35.00 STATUS: L

CODE	DESCRIPTION	U/M	PRICE	GROSS	DISC%	NET
J3216	FLUID DENSIMETER	JOB	575.000	575.00	35.00	373.75
J0556	LIQUID ADDITIVE PUMP	JOB	750.000	750.00	35.00	487.50
J3006	TREATMENT MONITORING VA	JOB	1965.000	1965.00	.00	1965.00
E333E	SAND. STD BLK. 20/40. F	CWT	7.540	294.06	35.00	191.14

PF08=FORWARD PF07=FIRST PAGE ENTER=UPDATE PAGE: 2
OPT:

LET F 17010 - 001

NAME: J. V. EDWARDS ASSOC. RES. INC.

PROD REVENUE: 5087.31

EQUIP REVENUE: 9147.86

GROSS REVENUE: 15035.17

LINE DISCOUNTS APPLY? Y

SALES CON: 4574.55 30.43

JO CON: .00 .00

BID CON: .00 .00

DIST CON: .00 .00

TOTAL CON: 4574.55 30.43

NET REVENUE: 10460.62

TAX AMOUNT: 621.16

ROY AMOUNT: .00

TOTAL: 11081.78

=====

CO # 1513 DATE ENTERED

WELL NAME

PURCHASE ORDER #

PROPOSAL NUMBER

HOW TO PRINT? ... E EXTENDED

=== ACCRUED DISCOUNTS ===

REQ: .00 .00

JO: .00 .00

===== WARRANTY INFORMATION =====

WERE WE READY TO PUMP?

WERE WE PROFESSIONAL?

DID EQUIPMENT PERFORM OK?

DID WE DO WHAT WE AGREED TO?

AMOUNT OF CREDIT REQUESTED...

===== BILLING INSTRUCTIONS =====



CUSTOMER COPY
The Western Company
of North America

SERVICE ORDER AND
FIELD RECEIPT NO. L 311928

CUSTOMER (COMPANY NAME) Edwards		CREDIT APPROVAL NO. 33		PURCHASE ORDER NO.		CUSTOMER NUMBER 2021		INVOICE NUMBER 41301	
MAIL Edwards		STREET OR BOX NUMBER 1100		CITY San Juan		STATE NM		ZIP CODE 87001	
INVOICE TO: 1100		DATE 10/95		WESTERN SERVICE SUPERVISOR 1100		WELL TYPE: ☒ NEW ☐ OLD		JOB TYPE CODES	
COMPLETED: 10/95		JOB DEPTH (FT.) 1163 +		TO WELL DEPTH (FT.)		WELL CLASS: ☐ OIL ☒ GAS ☐ INJECTION		CEMENTING SERVICES 10. CONDUCTOR 11. SURFACE 12. INTERMEDIATE 13. LONG 14. LINER 15. TIEBACK 16. PLUG & ABANDON 17. PLUG BACK 18. SQUEEZE 19. PUMPING (CEMENT) 20. BULK SALES (CEMENT)	
WESTERN DISTRICT San Juan		JOB DEPTH (FT.) 1163 +		TO WELL DEPTH (FT.)		WELL CLASS: ☐ OIL ☒ GAS ☐ INJECTION		STIMULATION SERVICES 30. ACID MATRIX 31. ACID FRACTURE 0.5-999 psi 32. FRACTURE 10,000+ psi 33. FRACTURE (STIM) 34. PUMPING (STIM) 35. BULK SALE (STIM) 40. SAND CONTROL 41. GRAVEL PACK TOOL SALES 42. GRAVEL PACK TOOL RENTAL	
WELL NAME AND NUMBER 1100		JOB DEPTH (FT.) 1163 +		TO WELL DEPTH (FT.)		WELL CLASS: ☐ OIL ☒ GAS ☐ INJECTION		TOOL SERVICES 50. TOOL SALE 51. TOOL RENTAL 52. TOOL REDRESS 53. TOOL SERVICE	
WELL LOCATION: 1-26N-13W		SECTION/RANGE 1-26N-13W		COUNTY San Juan		STATE NM		ZIP CODE 87001	
PRODUCT CODE 1100		DESCRIPTION 1100		UNIT OF MEASURE #		QUANTITY 10.00		LIST PRICE UNIT 12.75	
GROSS AMOUNT 127.50		PERCENT DISC. 0		NET AMOUNT 127.50		NL1			
GROSS AMOUNT 222.00		PERCENT DISC. 0		NET AMOUNT 222.00		NL1			
GROSS AMOUNT 1482.29		PERCENT DISC. 0		NET AMOUNT 1482.29		NL1			
GROSS AMOUNT 710.00		PERCENT DISC. 0		NET AMOUNT 710.00		NL1			
GROSS AMOUNT 61.00		PERCENT DISC. 0		NET AMOUNT 61.00		NL1			
GROSS AMOUNT 36.00		PERCENT DISC. 0		NET AMOUNT 36.00		NL1			
GROSS AMOUNT 140.00		PERCENT DISC. 0		NET AMOUNT 140.00		NL1			
GROSS AMOUNT 456.00		PERCENT DISC. 0		NET AMOUNT 456.00		NL1			
GROSS AMOUNT 247.50		PERCENT DISC. 0		NET AMOUNT 247.50		NL1			
GROSS AMOUNT 2639.00		PERCENT DISC. 0		NET AMOUNT 2639.00		NL1			
GROSS AMOUNT 350.00		PERCENT DISC. 0		NET AMOUNT 350.00		NL1			
GROSS AMOUNT 775.00		PERCENT DISC. 0		NET AMOUNT 775.00		NL1			
GROSS AMOUNT 2802.60		PERCENT DISC. 0		NET AMOUNT 2802.60		NL1			
GROSS AMOUNT 36.00		PERCENT DISC. 0		NET AMOUNT 36.00		NL1			
GROSS AMOUNT 895.00		PERCENT DISC. 0		NET AMOUNT 895.00		NL1			
GROSS AMOUNT 500.00		PERCENT DISC. 0		NET AMOUNT 500.00		NL1			

SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH TERMS AND CONDITIONS PRINTED ON THE REVERSE SIDE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.		CUSTOMER AUTHORIZED AGENT X	
SEE REVERSE SIDE FOR GENERAL TERMS AND CONDITIONS		WESTERN APPROVED X	



SERVICE ORDER AND
FIELD RECEIPT NO. L 311928

W: "NA 1168 1091 25M

PR TREATMENT SAFETY REPORT

CUSTOMER NAME		CUSTOMER LEASE		CONDUCTED ON LOCATION		FIELD RECEIPT NUMBER	
J K Edwards		Chaco #14		DATE 5-10-95 12:05		311928	
DISTRICT IN WHICH MEETING IS HELD			NAME OF PERSON CONDUCTING MEETING			TYPE OF JOB	
Lamhigh			Walk			Face Free	
EMPLOYEES PRESENT (INCLUDE ALL PERSONS ON LOCATION)							
1. V. MONTOYA	10. W. Shumard	19. Gabu	28.				
2. J. Pato	11. Denis Schmidt (Storrs)		29.				
3. M. BAUGH	12. Larry K... ..	21.	30.				
4. T. WHITEMAN	13. Kenneth	22.	31.				
5. B. WALKER	14.	23.	32.				
6. J. FITZ	15. Cecil Hughes	24.	33.				
7. J. SAUAGE	16.	25.	34.				
8. D. Griego	17.	26.	35.				
9. C. WASSER	18. Kyle Hodge	27.	36.				
TOPIC DISCUSSED (ITEMS SPECIFIC TO THIS JOB, I.E. WEATHER, MSDS)							
Blood off's spared							
CHECK EACH BOX (NORMAL ITEMS FOR EACH SAFETY MEETING)							
1. EVERYONE PRESENT				7. FIRE FIGHTING EQUIPMENT ASSIGNED			
2. OUTLINE JOB				8. PERSONAL PROTECTIVE EQUIPMENT			
3. JOB ASSIGNMENTS				9. CAUTION BYSTANDERS			
4. PRESSURE LIMITS				10. ESCAPE ROUTES			
5. INSTRUCTIONS ON PRESSURE TEST				11. CHECK FOR CUSTOMER COMMENTS			
6. DISCUSS HAZARDS				12. SMOKING AREA ESTABLISHED			
EXPLANATION OF INCIDENT							
THIS AREA FOR EMPLOYEE WRITE-UPS, BAD IRON, SYSTEM CHANGES, ETC.; FOR JOB PROBLEM, REFER TO JOB REPORT.							
THERE MUST BE ONE REPORT FOR EACH DAY AT A LOCATION, I.E. MISCELLANEOUS PUMP, SQUEEZE JOB, ETC. ALTHOUGH THERE MAY ONLY BE ONE FIELD RECEIPT NUMBER							
DISTRIBUTION							
• COPY TO DISTRICT WELL FILE • COPY TO SAFETY & REGULATORY COMPLIANCE IF AN UNSAFE ACT IS NOTED							
SIGNATURE OF PERSON CONDUCTING MEETING				PRINTED NAME OF COMPANY REPRESENTATIVE			
B. Walker				Paul Thompson			



JOB PERFORMANCE REPORT

District San AntonioDate 5-19-95Field Receipt Number 244250Customer Name TX EdwardsWell Name Chico #1

Stimulation: ☒ Fracture ☐ Acid ☐ Sand Control ☐ Misc. Pump Cement: ☐ Land ☐ Offshore ☐ Marine ☐ T.O.B.
Gas: ☒ N₂ ☐ CO₂ ☐ Binary ☐ Tools ☐ Surface ☐ Int./Long ☐ Squeeze ☐ Other _____

Customer Rep. Reaction: ☒ Pleased ☐ Neutral ☐ Displeased ☐ Not on JobWas there a problem on this job? ☐ Yes ☒ No (If NO checked, do not complete form further)**A. RTS PERFORMANCE**

- 01 ☐ Under 1 Hour Late
02 ☐ 1-4 Hours Late - No. Hours _____
Late _____
03 ☐ Over 4 Hours Late - No. Hours _____
Late _____

Cause:

- 04 ☐ Borrowed Equip/Labor Late
05 ☐ Delay on Prior Job
06 ☐ District Personnel Late on Yard
07 ☐ Equipment Failure on Location
08 ☐ Equipment Failure on Way to Location
09 ☐ Equipment Failure on Yard
10 ☐ Hotshot Trip
11 ☐ Lost Way to Location
12 ☐ Outside Service Late
13 ☐ Poor Communications
14 ☐ Products Problem
15 ☐ Road/Location Conditions
16 ☐ Wait on Customer Rep
17 ☐ Other _____

B. PRODUCT PERFORMANCE

- 01 ☐ Additive Incorrect/Not Used
02 ☐ Bad Water
03 ☐ Contamination
04 ☐ Defective Material
05 ☐ Freezing
06 ☐ Incorrect Base Material
07 ☐ Incorrect Mixture
08 ☐ PH
09 ☐ Total Sand Does Not Match
What Was Pumped _____
10 ☐ Viscosity _____
11 ☐ Volume of Fluid/Additives
Recorded Does Not Match
What Was Pumped _____
12 ☐ Product Code _____
13 ☐ Other _____

C. JOB PROCEDURE

- 01 ☐ Cemented Csg/Tbg
02 ☐ HP/Rate Requirements
03 ☐ Improper Slurry Density
04 ☐ Job Interruption
05 ☐ No Returns
06 ☐ Plug Not Bumped
07 ☐ Screenout
08 ☐ Other _____

Cause:

- 09 ☐ Equipment Failure
10 ☐ Human Error
11 ☐ Inadequate Job Design
12 ☐ Insufficient Material
13 ☐ Product Failure
14 ☐ Well Conditions
15 ☐ Other _____

D. EQUIPMENT

- 01 ☐ Acid Frac/Pump
02 ☐ Batch Mixer
03 ☐ Blender
04 ☐ Bulk Truck
05 ☐ Cement Pump
06 ☐ Chem Add
07 ☐ Field Bin
08 ☐ Frac Pump
09 ☐ Goose
10 ☐ Line Truck
11 ☐ N₂ Pump
12 ☐ N₂ Transport
13 ☐ Q.C. Lab Van
14 ☐ SPC/CMG
15 ☐ Sand Conveyor
16 ☐ Sandmaster
17 ☐ Sand Truck/Air Can
18 ☐ TMV
19 ☐ Tractor
20 ☐ Transport Cement
21 ☐ Transport Liquid
22 ☐ Van/Pickup
23 ☐ Other _____

E. EQUIPMENT PERFORMANCE

Problem Unit(s) _____

Fluid End:

- 01 ☐ Fluid End Block
02 ☐ Manifold
03 ☐ Packing
04 ☐ Valve
05 ☐ Other _____

Pumping Equipment:

- 06 ☐ Engine
07 ☐ Hydraulics
08 ☐ Power End
09 ☐ Supercharge/Mix Pump
10 ☐ Transmission
11 ☐ Vaporizer
12 ☐ Other _____

Mixing Equipment:

- 13 ☐ Agitator
14 ☐ Chemical Pump
15 ☐ Dry Chemical Feed
16 ☐ Electrical
17 ☐ Engine
18 ☐ Hydraulic/Air Hoses
19 ☐ Hydraulics
20 ☐ OSHA Air Valves
21 ☐ Recirculating Cement Mixer
22 ☐ Sand Ramp
23 ☐ Sandscrews
24 ☐ Suction/Supercharge Pump
25 ☐ Transmission
26 ☐ Tub Level
27 ☐ Other _____

Instrumentation/Monitoring:

- 28 ☐ Cables/Connections
29 ☐ Closed Loop Controllers
30 ☐ Densimeter
31 ☐ Flow Meter
32 ☐ Martin Decker
33 ☐ Model "C"
34 ☐ Modem Data Line
35 ☐ Printer/Plotter
36 ☐ Software
37 ☐ Transducer
38 ☐ Viscometer
39 ☐ WestComp
40 ☐ WestFrac III
41 ☐ WestFrac IV
42 ☐ WestView
43 ☐ Other _____

Miscellaneous:

- 44 ☐ Air Blower
45 ☐ Ball Injector
46 ☐ Cement Head
47 ☐ CO₂ Booster
48 ☐ Failed Line/Fitting
49 ☐ Hydraulic Power Pack
50 ☐ Pressure Relief Valve
51 ☐ Stake Bed
52 ☐ Suction Manifold Trailer
53 ☐ Wellhead Protector
54 ☐ Other _____

F. OTHER PROBLEMS

- 01 ☐ Accident
02 ☐ Communications System
03 ☐ Connection/Valve Leak
04 ☐ No Ball Out
05 ☐ Personal Injury
06 ☐ Remote Data Transmission
07 ☐ Other _____

Brief Explanation of Problem(s):

If product failure, list the trade name of the fluid used. Forward complete description, samples, and test data as per FIELD PROCEDURES MANUAL to WPS Research, Technical Lab Services

Service Supervisor: Bill WalshDistrict Manager: MAK

**FARMINGTON DISTRICT
PRE-STIMULATION CHECKLIST-ENGINEERING**

DISPATCH:

CO. JK Edwards RTS Date 5-10-95
Well Chaco #4 RTS Time ASAP

Water Samples		check Y/N
Sand Samples		<u>Y</u>
Engineer(s) notified	Name <u>Patton</u>	<u>Y</u>
	Dispatcher	<u> </u>

ENGINEERING:

WPS Engineer Patton Eng-on-loc(time) 0500
Verify Procedure
Verify Chemical Loading (chemicals & amounts)
Type of Chem-Ad acceptable?
Q.C. Van Needed?
Driver
TMV Required?
Driver
Stregs Info Complete?
Other

Engineer

TRI-CITY TRANSFER & STORAGE, INC.

403 EAST ANIMAS
FARMINGTON, NEW MEXICO 87401

9542

TRUCK NO.

4055

CUSTOMER'S NAME

Western Co

ADDRESS

J. L. Edwards Chaco #4

COMMODITY

20/40 Arizona

DATE

TIME

5-09-95

4:13PM

53840

lb GROSS

27240

lb TARE

26600

lb NET

DRIVER ON

OFF

290

50

10 FEE

SHIPPER

DRIVER

W. Phemphut

W. Bred Christensen
CERTIFIED WEIGHER

TRI-CITY TRANSFER & STORAGE, INC.

403 EAST ANIMAS
FARMINGTON, NEW MEXICO 87401

9540

TRUCK NO.

4063

CUSTOMER'S NAME

Western Co

ADDRESS

J. L. Edwards Chaco #4

COMMODITY

20/40 Arizona

DATE

TIME

5-09-95

3:37PM

44960

lb GROSS

27620

lb TARE

17340

lb NET

DRIVER ON

OFF

50

10 FEE

SHIPPER

DRIVER

W. Phemphut

W. Bred Christensen
CERTIFIED WEIGHER

COMPANY: J. K. Edwards LEASE: Chaco #4

STAGE: _____

TYPE OF SAND

WEIGHT

UNIT

DRIVER

20/40 ARIZONA	17,340	4063	W. Shenefield
	26,600	4055	W. Shenefield

DISPATCH NUMBER: 149978

DATE: _____

SAND TRANSFERRED FROM OTHER LOCATION

TOTAL SAND ORDERED

TYPE: 20/40 ARIZONAAMOUNT: 35,000

SIGNED _____

**The Western Company
of North America**

.....G C.....

VICE UNDER ARMS

SERVICE ORDER AND
FIELD RECEIPT NO. **L 309648**

[illegible]



REPORT TO: P.B. BYX 211513
DATE: 10/10/78 BY 75391-1418

A. K. REMROS RECORDES, INC.
100 LEM WEEF, SUITE 100
DUNBAR MD 80093

INVOICE NO. 00000000	OUR RECEIPT NO. 00000000	DATE 00-00-00
		YOUR ORDER NO.

SERVICES FROM OUR STATION AT	OUR ENGINEER	SIGNED FOR YOU BY
FLORIDA POWER & LIGHT CO.	REPRESENTATIVE	WILLIAM HOPIN
FOR SERVICING WELL NAME		STATE
CHANDLER #4	SAN JUAN	PR

FEDERAL I.D. NO. C 75-0783484

[illegible]

PAY THIS AMOUNT

1000

9

LINE	UNITS	DESCRIPTION	UNIT PRICE	AMOUNT	
0023E	500.0	N2/100 SCF.1ST 50000 SCF.FARMINGTON,NM	1.840	920.00	
0003E	150.0	NITROGEN CHARGES-FARMINGTON NM	1.840	276.00	
N2006	1.0	LOW RATE N2 PUMP, 0 - 5000 PSI	1110.000	1110.00	
J3906	20.0	MILEAGE, HEAVY VEHICLE, PER UNIT	2.950	59.00	
J3916	20.0	MILEAGE, AUTO/PICK-UP/TREATING VAN	1.800	36.00	

PF08=FORWARD PF07=FIRST PAGE ENTER=UPDATE (STATUS=S SUMMARY) PAGE: 1
OPT:

***** FIELD RECEIPT SUMMARY *****

-CUST # 27340 - 000		CC #: 1314	FR#: L309348	STATUS: C
NAME: J. K. EDWARDS ASSOCIATES, INC.		WELL: CHACO #4		
PROD REVENUE:	1221.00	PURCHASE ORDER #:		
EQUIP REVENUE:	1205.00	PROPOSAL NUMBER :		
GROSS REVENUE:	2426.00	HOW TO PRINT?...: E EXTENDED		
LINE DISCOUNTS APPLY? N		=== ACCRUED DISCOUNTS ===		
SALES CON:	849.10 35.00	REG:	.00 .00	
JO CON:	.00 .00	JO:	.00 .00	
BID CON:	.00 .00			
DIST CON:	.00 .00	===== WARRANTY INFORMATION =====		
TOTAL CON:	849.10 35.00	WERE WE READY TO PUMP?		
		WERE WE PROFESSIONAL?		
		DID EQUIPMENT PERFORM OK?		
		DID WE DO WHAT WE AGREED TO?		
		AMOUNT OF CREDIT REQUESTED...		
NET REVENUE: 1576.90		===== BILLING INSTRUCTIONS =====		
TAX AMOUNT:	93.65			
ROY AMOUNT:	.00			

TOTAL:	1670.55			
=====				



CUSTOMER COPY
The Western Company
of North America

SLURRY OILFIELD AND
FIELD RECEIPT NO. L 309648

CREDIT APPROVAL NO. 043		PURCHASE ORDER NO.		CUSTOMER NUMBER 01305	INVOICE NUMBER 1110120
MAIL ADDRESS: 11101 11101 11101		CITY STATE ZIP CODE 043 043 043		JOB TYPE CODES	
INVOICE TO: 11101 11101 11101		WELL TYPE: NEW		CEMENTING SERVICES	
DATE WORK COMPLETED: 11/11/11		WELL CLASS: OIL		10. CONDUCTOR	
WESTERN DISTRICT: 11101 11101 11101		WELL DEPTH (FT): 1112		11. SURFACE	
WELL NAME AND NUMBER: 11101 11101 11101		TD WELL DEPTH (FT): 1112		12. INTERMEDIATE	
WELL: 11101 11101 11101		COUNTY: 043		13. LONG	
LOCATION: 11101 11101 11101		UNIT OF MEASURE: 11101		14. LINER	
PRODUCT CODE: 11101		QUANTITY: 11101		15. TIEBACK	
DESCRIPTION: 11101 11101 11101		PRICE/UNIT: 11101		16. PLUG & ABANDON	
11101 11101 11101		11101		17. PLUG BACK	
11101 11101 11101		11101		18. SQUEEZE	
11101 11101 11101		11101		19. PUMPING (CEMENT)	
11101 11101 11101		11101		20. BULK SALES (CEMENT)	
11101 11101 11101		11101		21. TOOL RENTAL	
11101 11101 11101		11101		22. TOOL RENTAL	
11101 11101 11101		11101		23. TOOL SERVICE	
11101 11101 11101		11101		24. TOOL SERVICE	
11101 11101 11101		11101		25. TOOL SERVICE	
11101 11101 11101		11101		26. TOOL SERVICE	
11101 11101 11101		11101		27. TOOL SERVICE	
11101 11101 11101		11101		28. TOOL SERVICE	
11101 11101 11101		11101		29. TOOL SERVICE	
11101 11101 11101		11101		30. TOOL SERVICE	
11101 11101 11101		11101		31. TOOL SERVICE	
11101 11101 11101		11101		32. TOOL SERVICE	
11101 11101 11101		11101		33. TOOL SERVICE	
11101 11101 11101		11101		34. TOOL SERVICE	
11101 11101 11101		11101		35. TOOL SERVICE	
11101 11101 11101		11101		36. TOOL SERVICE	
11101 11101 11101		11101		37. TOOL SERVICE	
11101 11101 11101		11101		38. TOOL SERVICE	
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ARRIVE LOCATION	MO	DAY	YEAR	TIME
CUSTOMER REP. LAST NAME				
SEE REVERSE SIDE FOR GENERAL TERMS AND CONDITIONS				
CUSTOMER AUTHORIZED AGENT				
WESTERN APPROVED				
CUSTOMER AUTHORIZED AGENT				
TO ACCEPT AND SIGN THIS ORDER.				
TO REVERSE SIDE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY				
TIONS IN ACCORDANCE WITH TERMS AND CONDITIONS PRINTED ON THE				
SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUC-				
AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.				
SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED				

[illegible]

ISSUED BY JO DATE 5/11/91 RECEIVED BY John Newell DATE 5-11-8

APPROVAL

OPERATIONS SUPERVISOR

District	Fmgt		Dist. No.	Job No. 1488 2		Same As Job No.
Field Receipt	1.	2.	3.	4.	5.	6.
Order Taken By	JOHN Ftz			Time	1345	
Order Placed By	PAUL THOMPSON			Date	5-11-95	
Company	J.K. EDWARDS			Operator P.O. No.	243	
Job Instructions	CLEAN out			Lease Name & No.	CHACO #4	

Fluid Type:		Proppant:		Press (PSI)		Vol (Gall):		Well:	
01 ☐ Oil-Water Emul.	08 ☐ Gelled Oil	15 ☐ Clay Stab.	1 ☐ Sand	1 ☐ 0 - 3000	1 ☐ 0 - 1500	1 ☐ New	02 ☐ Oil-Acid Emul.	09 ☐ Other Oil	16 ☐ Flow Control
03 ☐ Acid 0 - 10%	10 ☐ X-Linked Water	17 ☐ Super Frac	2 ☐ Beads	2 ☐ 3001 - 5000	2 ☐ 1501 - 5000	2 ☐ Rework	04 ☐ Acid 10.1 - 20%	11 ☐ Gelled Water	17 ☐ Misc.
05 ☐ Acid 20.1% & up	12 ☐ Other Water	18 ☐ Misc.	3 ☐ Other	3 ☐ 5001 - 6000	3 ☐ 5001 - 20000	3 ☐ New Zone	06 ☐ Gelled Acid	13 ☐ Foam	18 ☐ None
07 ☐ Other Acid	14 ☐ Scale Treat.	Gas:		4 ☐ 6001 - 8000	4 ☐ 20001 - 60000	4 ☐ Other	07 ☐ CO ₂	3 ☐ OTH	
		2 ☒ N ₂		4 ☐ None	5 ☐ 8001 - 10000				
					6 ☐ 10001 - 15000				
					7 ☐ 15001 & up				

Date & Time Wanted	5-11-95	Total Depth	1,200'	Type & Amount Material Needed	200,000 SCFM
Casing Size & Wgt.	2 7/8"	Oper. Max Press			
Tubing Size & Wgt.	1 3/4"?	Hole Size			
Flush In					
Top Connection	1 3/4"?				

Directions to Well: T/L OFF 371 @ NAPI HEADQ. GO TO END of PAVEMENT T/R you CAN SEE RIG. 1/2 mile

Miscellaneous Information:

NAME	Yard Time	Unit 1	Unit 2	Service Engineer	Empl. No.	Unit	Act. Hrs.
B. Murphy	1400	3318		A. Hopworth		123	
Rented Services				Left Last Job/Yard			
				Date Time			
				Arrived Job			
				Date Time			
Total Off-road Mileage				Start Service			
				Date Time			
BORROWED EQUIPMENT				Stop Service			
				Date Time			
				Arrived Next Job/Yard			
				Date Time			
				Speedometer Reading			
				End			
				Start			

9158.6

HOUSTON COPY

Completion /
File

Completion File

WALSH ENGINEERING & PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator: J. K. EDWARDS ASSOCIATES Well Name: Chaco #4
 Date: 5/11/95 Report No: 2
 Field: PC Location: County: San Juan State: N.M.
 Contractor: Polanco Bros. Supervisor: West Hahn

Work Summary:

Arrive on location AM. Flowing tubing pressure 70# to pit, flowing back frac sand & H2O. Rig up pump and pit, kill well with 60 bbls H2O. Nipple down frac valve and nipple up wellhead and BOP. Lay down 1-1/4" tubing. Tally and rabbit 32 joints of 1-1/2" NUE tubing plus 6 joints of 1-1/2" IJ tubing. Nipple up 2-1/4" 3-Blade mill, A-rod to 1-1/2" NUE x-Over. Trip in hole with mill, x-over and 28 joints 1-1/2", well started unloading. Pump 100 bbls H2O to kill well, 0 circulation to surface. Trip in hole with 38 more joints tubing. Tag fill at 1191'GL. Bottom perf at 1189'. Nipple up nitrogen truck and clean out to hard tag at 1252'GL. PBSD 1268'GL. Bleed off nitrogen and pump 60 bbls to kill well. Nipple down nitrogen truck. Trip out of hole with tubing while slowly pumping H2O down casing. Nipple down 2-1/4 3 blade mill and A rod to 1-1/2". NU x-over, nipple up pin collar to bottom of bottom joint and trip in hole 2 joints of 1-1/2" IJ and 34 joints of 1-1/2" NUE tubing. Nipple down BOP and land tubing at 1160'GL. Top perf at 1163' GL.

Well trying to unload. Pump 60 bbls in well slowly and shut well in. Release rig.

Daily Costs:

Load & Location		Tubulars	320.00
Rig Cost	2250.00	Wellhead Equipment	
Equipment Rental	75.00	Subsurface Equipment	
Logging & Perforating		Artificial Lift Equipment	
Simulation nitrogen	1580.00	Sucker Rods	
Testing		Tanks	
Cementing		Pressure Vessels	
Completion Fluids H2O Tk.	320.00	Flowlines	
Contract Services		Installation/Labor	
Miscellaneous Supplies		Fittings, Valves, Etc. Wellhead	300.00
Eng. & Supervision	250.00	Meters, Lact, Etc...	
Trucking	190.00	Electrical Equipment	
Other		Total Daily Cost	5035.00
		Cumulative Cost	23593.00

Well Record

Pulled from well				Equipment	Run in well			
1"	7/8"	3/4"	5/8"	Sucker Rod Count	1"	7/8"	3/4"	5/8"
Red cube					Red cube			
API Pump Size				Pump	API Pump Size			
Depth				Tubing Bottom	Depth			
Length				Gas or Mude Anchor	Length			
Length				Perforated Nipple	Length			
Size				Sealing Nipple	Size			
Type				Tubing Count	Type			
Length					Length			
Joints					Joints			
Tubing Sub					Tubing Size			
Type					Wt Grade Thread			
Depth				Anchor Catcher	Tubing sub			
					Type			
					Depth			
				Packer	How Set			
					Type			
					Depth			

19CS

ASTERISK DESIGNATES CENTRALIZER ON JOINT					
MA	3				
1 st Column	10 Jts	#1 32.80	#4 32.90	#5 32.85	#6 32.95
Did not run in well Took to chere #5 well				TOTAL	1295 16
				JOINTS NOT RUN (-)	131 62
				CUT OFF (-)	3.00
				TOTAL	1163 54
1 st Column - 6 Jts of 1 1/2" JT tubing purchased				1" O.D. DRIVE TUBING 1" (+)	
For Cave Paterpiss-1				1" O.D. EASTING-10 PLATE	
				SET AT	1160 54

4/12/95

Check #4

5.10.95 Free Complete - test well bleeding through 3/8" choke.

5.11.95 Flow - 70" Estimate MCF/D at 90-100

Fluid returns - 5% foam 95% H₂O with very small amount of free sand.

Kill well with GDBL to top tubing

Clean out well with Nitrogen - 10 minutes after bleeding off nitrogen truck, well standing to indicate. Pump down BDL slowly down casing to kill well.

Fill after 24hrs was at 1191. Bottom Point at 1188

Well readiness to flow back well as soon as Perm set crew out to fix it flow limit to pit

Post-it® Fax Note 7671		Date 5/8/95	# of pages 8
To Roland Bauer		From Keith Edwards	
Co./Dept.		Co.	
Phone #		Phone #	
Fax # 830-9427		Fax #	

WALSH ENGINEERING AND PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator:	J.K Edwards and Assoc	Well Name:	Chaco #4
Date:	May 10, 1995	Report No.:	1
Field:	NIIP PC	Location:	NW 7 26N 12W
Contractor:	Polanco Bros.	Supervisor:	Paul Thompson

Work Summary: Move on location and rig up Polanco Bros. rig. Blew well down and installed BOPs. TOH with 1-1/4" tubing. Petro Wireline ran GR/CCL across PC. Perforated 1163' - 1166' and 1173' - 1189' at 1 SPF. Total of 19 (0.32" holes). Same intervals had previously been perforated at 4 SPF. Rig up BJ/Western. Fraced PC with 7650 gal pad of 70% nitrogen foam followed by 35,000# of 20/40 sand at 1/2 to 3.3 PPG. Job completed at 1300 hrs 5/10/95. ISIP = 600#, 5min. = 490, 10 min. = 430, 15 min. = 370, 30 min. = 230, 60 min. = 150 AIR = 26 BPM, ATP 1700#, MIR = 29 BPM, MTP = 2400#. Increased rate to 30 BPM near the end of the job, but pressure did not stabilize. Total N2 = 199 MSCF, total fluid = 219 bbls. All fluid was produced water with 20#/1000 linear gel, foamer, pH buffers, bactericide, and enzyme breakers. Installed flow line and opened well to pit through 3/8" choke at 1400 hrs. 5/10/95.

Daily Costs:

Location:	0	Tubulars: 3-1/2"	0
Rig Costs:	600	Wellhead Equipme	0
Rentals:	0	Subsurface Equip.:	0
Wireline:	1,345	Artificial Lift Equip.	0
Stimulation:	15,543	Sucker Rods:	0
Packers, BPs, e	0	Tanks:	150
Drilling mud:	0	Pressure Vessels:	0
Comp. Fluids:	240	Flowlines:	0
Csg Crew	0	Installation/Labor:	0
Frac Valve	500	Fittings, Valves, Ect	0
Supervision:	180	Meters, Lact, Ect.	0
Trucking:	0	Electrical Equip.:	0
Anchors:	0	Total Daily Cost:	18,558
		Cumulative Cost:	18,558

WALSH ENGINEERING AND PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator: J.K Edwards and Assoc Well Name: Chaco #4
 Date: Feb. 14, 1995 Report No.: 3
 Field: NIIP PC Location: NW 7 26N 12W
 Contractor: Polanco Bros Supervisor: Paul Thompson

Work Summary: Move on location and rig up Polanco Bros. rig. SICP = 170#. Blew well down and installed BOPs. TIH with 1-1/4" tubing and tag fill at 1242' GL. PC perfs from 1163' to 1189'. POH and landed 37 jts. (1165.39') of 1-1/4", 2.4#, J-55, EUE used tubing at 1163' GL. Bottom joint is cut off and crimped on bottom. Change overs from 1-1/4" EUE to 1-1/2" NUE just below donut. Well started to unload as soon as the donut was landed. Left well flowing to pit through cracked master valve. Too windy to rig down. Will request 16 day test from El Paso and turn on well as soon as possible. Will rig down and move to Chaco #2R. on 2/15/95.

Daily Costs:			
Location:	0	Tubulars: 3-1/2"	0
Rig Costs: Adj	600	Wellhead Equipme	100
Rentals:	0	Subsurface Equip.:	0
Wireline:	0	Artificial Lift Equip.	0
Stimulation: Acl	0	Sucker Rods:	0
Packers, BPs, e	0	Tanks:	0
Drilling mud:	0	Pressure Vessels:	0
Comp. Fluids:	0	Flowlines:	0
Csg Crew	0	Installation/Labor:	0
Frac Valve	0	Fittings, Valves, Ect	0
Supervision:	190	Meters, Lact, Ect.	0
Trucking:	0	Electrical Equip.:	0
Anchors:	0	Total Daily Cost:	890
		Cumulative Cost:	3,844

WALSH ENGINEERING AND PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator:	J.K Edwards and Assoc	Well Name:	Chaco #4
Date:	Jan. 30, 1995	Report No.:	2
Field:	NIIP PC	Location:	NW 7 26N 12W
Contractor:	Polanco Bros.	Supervisor:	Paul Thompson

Work Summary: Rigged up Western. SICP = 119#. Pumped 500 gal. of 7-1/2% HCl and displaced with 6 bbls of water. Maximum pressure = 750#. Well was on a vacuum at the end of the flush. SI well.

Daily Costs:

Location:	0	Tubulars: 3-1/2"	0
Rig Costs: Adj.	455	Wellhead Equipme	0
Rentals:	0	Subsurface Equip.:	0
Wireline:	0	Artificial Lift Equip.	0
Stimulation: Aci	1,096	Sucker Rods:	0
Packers, BPs, e	0	Tanks:	0
Drilling mud:	0	Pressure Vessels:	0
Comp. Fluids:	0	Flowlines:	0
Csg Crew	0	Installation/Labor:	0
Frac Valve	0	Fittings, Valves, Ect	0
Supervision:	78	Meters, Lact, Ect.	0
Trucking:	0	Electrical Equip.:	0
Anchors:	0	Total Daily Cost:	1,629
		Cumulative Cost:	2,954

Merrion Oil & Gas Corporation

CHACO No. 4

Sec. 7, T26N, R12W

San Juan County, New Mexico

4/4/82 Turned well back. After 1 hour rate was 88 MCF/D. Approximately double the rate previous to plugging off at perfs.
4/6/82 74 MCF. Tubing 26 PSIG. Casing 45 PSIG.
4/8/82 Tubing 26 PSIG. Casing 45 PSIG. Rate on 4/5/82 - 75 MCF.

MERRION & BAYLESS

CHACO #4
Daily Report

04-11-77 Moved in L&B Speed Drill. Drilled 41 ft. of 7-7/8" hole and set 40 ft. of surface casing 5-1/2", 10.5#/ft., J-55, blue band

04-21-77 Drilling at 450 ft.

04-22-77 Drilling at 800 ft.

04-23-77 Drilling at 1000 ft.

04-25-77 TD at 1300 ft.

04-26-77 Birdwell ran Induction Density Logs, ran 42 jts. 2-7/8" EUE 6.5#/ft. casing and set at 1294 ft. G.L. PBTD 1268 ft. G.L. B.J. cemented with 100 sax Class "G". Bumped plug with 1500 PSIG. No bleed back and good returns throughout job. Plug down at 4:30 p.m.

05-02-77 Blue Jet ran Cement Bond and Gamma Ray Collar logs. Good bond indicated. Ran in with glass jets to shoot 4 PF; 1163-1166 and 1173-1189 76 shots. Hung up; coming out. Left one wire in the hole. Found blockage at 1175 ft. G.L. with collar tool. Ran impression block; found top of wire at 1182 ft. G.L. Swabbed in and flowed to clean up.

05-03-77 Gauged 480 MCF/day of dry gas on 3/4" plate.

02-07-78 Shut in pressure - 225 PSIG at 10:15 a.m.

06-12-78 On line at 1:40 p.m., rate 406 MCF/day. Shut in Pressure 215 PSIG, 1-1/2" plate.

06-14-78 IP 340 MCF/day.

04-02-80 Run siphon string to 1286'. Rig up to sell gas. (JCA)

4/1/82 Rig up Hinson Service Company and Chemical Consultants pump truck. Spot 1 Bbl acid across perforations. Pull tubing. Flush w/2 Bbl H₂O. Wait on acid 30 minutes. Swab in. Left blowing overnight.

4/2/82 Run 1" IF string to 1155' GR. Shut well in. Rig down Hinson Service Co. and move off.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

(See instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.**WELL COMPLETION OR RECOMPLETION REPORT AND LOG ***

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. SF 080238A																																					
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVER. ☐ Other ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																																					
2. NAME OF OPERATOR J. Gregory Merriam and Robert L. Bayless		7. UNIT AGREEMENT NAME																																					
3. ADDRESS OF OPERATOR P.O. Box 507, Farmington, New Mexico 87401		8. FARM OR LEASE NAME Chaco																																					
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 790 FNL and 790 FWL At top prod. interval reported below same At total depth same		9. WELL NO. 4																																					
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT N.I.I.P. Picture Cliff																																					
DATE ISSUED		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 7, T26N, R12W																																					
15. DATE SPUDDED 4-11-77		12. COUNTY OR PARISH San Juan																																					
16. DATE T.D. REACHED 4-25-77		13. STATE N.M.																																					
17. DATE COMPL. (Ready to prod.) 5-02-77		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5991 G.R.																																					
19. ELEV. CASINGHEAD		20. TOTAL DEPTH, MD & TVD 1300 ft.																																					
21. PLUG, BACK T.D., MD & TVD 1268 ft.		22. IF MULTIPLE COMPL., HOW MANY*																																					
23. INTERVALS DRILLED BY 0-TD		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 1163-89 ft. Picture Cliff																																					
25. TYPE ELECTRIC AND OTHER LOGS RUN Induction, Gamma Ray Density		26. WAS DIRECTIONAL SURVEY MADE no																																					
27. WAS WELL CORED no		28. CASING RECORD (Report all strings set in well)																																					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CASING SIZE</th> <th>WEIGHT, LB./FT.</th> <th>DEPTH SET (MD)</th> <th>HOLE SIZE</th> <th>CEMENTING RECORD</th> <th>AMOUNT PULLED</th> </tr> </thead> <tbody> <tr> <td>5-1/2"</td> <td>15.5</td> <td>40 ft.</td> <td>7-7/8"</td> <td>6 sacks</td> <td></td> </tr> <tr> <td>2-7/8"</td> <td>6.5</td> <td>1294 ft.</td> <td>4-3/4"</td> <td>100 sacks</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED	5-1/2"	15.5	40 ft.	7-7/8"	6 sacks		2-7/8"	6.5	1294 ft.	4-3/4"	100 sacks																			
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*(See Instructions and Spaces for Additional Data on Reverse Side)

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s) and bottom(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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37. SUMMARY OF POROUS ZONES:		38. GEOLOGIC MARKERS		39. WELL COMPLETION OR RECOMPLETION REPORT	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH
Picture Cliff	1163 ft.		Gas, salt water	Kirtland Fruitland Pic. Cliff	326' 1024' 1163'

May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIP
(Other instruction
verse side)Form approved.
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

SF 080238A

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Chaco

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 7, T26N, R12W

12. COUNTY OR PARISH 13. STATE

San Juan

N.M.

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—" for such proposals.)

1. OIL ☐ GAS ☒ OTHER ☐
WELL WELL

2. NAME OF OPERATOR
J. Gregory Merrion and Robert L. Bayless

3. ADDRESS OF OPERATOR
P.O. Box 1541, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
790 FNL and 790 FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5991 G.L.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐FULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☒(Other) Completion ☒REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)*04-11-77 Moved in L & B Speed Drill. Drilled 41 ft. of 7-7/8" hole and set 40 ft.
of surface casing 5-1/2", 10.5#/ft., J-55, blue band.

04-21-77 Drilling at 450 ft.

04-22-77 Drilling at 800 ft.

04-23-77 Drilling at 1000 ft.

04-25-77 TD at 1300 ft.

04-26-77 Birdwell ran Induction Density Logs, ran 42 jts. 2-3/8" EUE 6.5#/ft.
casing and set at 1294 ft. G.L. PBTD 1268 ft. G.L. B.J. cemented with
100 sax Class "G". Bumped plug with 1500 PSIG. No bleed back and good
returns throughout job. Plug down at 4:30 p.m.05-02-77 Blue Jet ran Cement Bond and Gamma Ray Collar logs. Good bond indicated.
Ran in with glass jets to shoot 4 PF; 1163-1166 and 1173-1189 76 shots.
Hung up; coming out. Left one wire in the hole. Found blockage at 1175 ft.
G.L. Swabbed in and flowed to clean up. (Over)

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Engineer

DATE

May 4, 1977

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Instructions

...here is for ...des for ...ting ...osali ...erfor ...tain ...oper...ed, an...ports ...such operations when completed, as indicated, on ...eral and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well sit- conditioned for final inspection looking to approval of the abandonment.

G.P.O. : 1973- 780-622 /VIII- 148

-03-77 Gauged 480 MCF/day of y gas on 3/4" plate.