

DISTRICT Farmington DISPATCH SHEET NO. 150814 WELL NAME Chinco #1
CUSTOMER J. H. Edwards - 150 DATE OF JOB 1-27-95
ACCOUNT

					26
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 FIELD RECEIPT NO. 1309660 FIELD RECEIPT DATE 1-27-95

ISSUED BY EH DATE 1/27/95 RECEIVED BY J. M. Crank DATE 1-27-95

OPERATIONS SUPERVISOR

VOLUME CALCULATIONS
(SHOW ALL JOB CALCULATIONS BELOW)

A Supervisor must either prepare or verify this form

20#J-4

16,800 gals -

FRACIDE 20 - $.38/1000 = 6$

J-4 20/1000 = 336

P-4 - $3/1000 = 50$

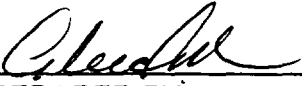
B-11 - $1/1000 = 16$

FRAC FUM-1 $5/1000 = 84$

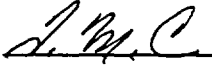
40/70 B = 5,000

20/40 B = 25,000

12/20 B = 5,000


PREPARED BY

TITLE


VERIFIED BY

TITLE SS



ACCOUNTING COPY

SERVICE ORDER AND

FIELD RECEIPT NO. L 309660

The Western Company

of North America, single stage 1 of 2

CUSTOMER NAME		STREET OR BOX NUMBER		CITY		STATE		ZIP CODE	
J Edwards		726		T26		SAN JUAN		30	
INVOICE TO:		WESTERN SERVICE SUPERVISOR		WELL TYPE:		NEW		OLD	
DATE WORK COMPLETED: 1/27/95		1. m. Crabb (15347)		(CHECK ONE)					
WESTERN DISTRICT		JOB DEPTH (FT.)		WELL CLASS:		OIL		DISPOSAL	
Emp. T. N. m.		1113-1139		(CHECK ONE)		GAS		INJECTION	
WELL NAME AND NUMBER		TD WELL DEPTH (FT.)		GAS USED ON JOB:		N ₂		NONE	
Chaco 1		1137		(CHECK ONE)		CO ₂		BINARY	
VEILL		SECTION/PAGE		COUNTY		STATE			
LOCATION: 52 C-18-T26-N-R 12W		SAN JUAN		045		30			

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	PRICE/UNIT	GROSS AMOUNT	PERCENT DISC.	NET AMOUNT
J3916	Light vehicle mileage 2ve X 3m.	mi	6.00	1.80	10.80	35	
J3906	Heavy Equipment Mileage 6ve X 3m.	mi	18.00	2.95	53.10		
J4016	Proppant Delivery Charge 18T X 20m.	T/m	360.00	1.00	360.00		
J226B	Fish pumps 110psi X 1130/m / 40.8'	HHP	305.00	6.05	1845.25		
J118AB	Prop Pump Charge 20/40	CWT	200.00	42	4200	12.80	
E118-BB	" " 12/20	CWT	60.00	1.30	78.00		
J4624B	Prop. Conc. Charge (6.1-9.0ppg)	gal	2999.00	13	389.87		
J4636B	" " (9.1-12.0ppg)	gal	500.00	20	100.00		
F3016B	Master Mixen	unit	1.00	995.00	995.00		
J2186	Blending Charge	hr	1.00	500.00	500.00		
J0556	Liquid Add Pump	job	1.00	750.00	750.00		
J16	Devisometer	job	1.00	575.00	575.00		
H0946	J-4	#	300.00	4.85	1455.00		
H0356	Frac-side 20	#	6.00	37.00	222.00		
H2186	Frac Foam - 1	gal	50.00	26.95	1347.50		
H0936	B-11	#	8.00	12.75	102.00		
H109	F-4	#	50.00	3.05	152.50	35	

ARRIVE LOCATION	MO	DAY	YEAR	TIME	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.	
1	1	27	95	10:00 AM	Paul C. Thompson	
CUSTOMER REP LAST NAME					CUSTOMER AUTHORIZED AGENT	
Thompson					X Paul C. Thompson	
SEE REVERSE SIDE FOR GENERAL TERMS AND CONDITIONS					X Mark L. King	



The Western Company of North America

REMIT TO: P.O. BOX 911543
DALLAS, TX 75391-1543

INVOICE NO.	OUR RECEIPT NO.	DATE
465306	309660	01/27/93
YOUR ORDER NO.		
27340	1314	

J. K. EDWARDS ASSOCIATES, INC.
1401 17TH STREET, SUITE 1400
DENVER CO 80202

SERVICES FROM OUR STATION AT	OUR ENGINEER	SIGNED FOR YOU BY
FARMINGTON STIMULATI	CRABB	PAUL THOMPSON
FOR SERVING WELL NAME	COUNTY	STATE
PHACD #1	SAN JUAN	NM 30

FEDERAL I.D. NO. C 75-0783484

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE/UNIT	GROSS AMOUNT	PERCENT DISC.	NET AMOUNT
10016	MILEAGE, AUTO/PICK-UP/TREATING VAN	MILE	6.0	1.800	10.80	35.00	7.02
10004	MILEAGE, HEAVY VEHICLE, PER UNIT	MILE	18.0	2.950	53.10	35.00	34.52
14016	BULK MATERIAL DELIVERY, DRY	TONMI	360.0	1.000	360.00	35.00	234.00
10014B	FRAC PUMP, 0 - 5000 PSI	4HRS	305.0	6.050	1845.25	35.00	1,199.41
11180B	PROP PUMP CHG, MODERATE STRENGTH	CWT	290.0	.420	121.80	35.00	79.17
11185B	PROP PUMP CHG, MODERATE STRENGTH	CWT	60.0	1.300	78.00	35.00	50.70
14626B	PROPPANT CONCENTRATION CHG/6-9 LBS	GAL	2999.0	.130	389.87	35.00	253.42
14635B	PROPPANT CONCENTRATION CHG/9-12 LBS	GAL	500.0	.200	100.00	35.00	65.00
10016B	MASTER MIXER, 0 - 10 BPM	4HRS	1.0	995.000	995.00	35.00	646.75
12186	MISCELLANEOUS BLENDING CHARGE	HOURL	1.0	500.000	500.00	35.00	325.00
10556	LIQUID ADDITIVE PUMP	JOB	1.0	750.000	750.00	35.00	487.50
13216	FLUID DENSIMETER	JOB	1.0	575.000	575.00	35.00	373.75
10846	J-4, LOW RESIDUE GUAR GUM	LB	300.0	4.850	1455.00	35.00	945.75
0936	FRAC-CIDE 20	LB	6.0	37.000	222.00	35.00	144.90
10186	FRAC FOAM-1	GAL	50.0	26.950	1347.50	35.00	875.88
10936	R-11, GEL BREAKER	LB	8.0	12.750	102.00	35.00	66.30
11096	P-4, PH CONTROL	LB	50.0	3.050	152.50	35.00	99.13
1003F	SAND, AZ SILICA, 20/40, FARMINGT, NM	CWT	261.0	7.540	1967.94	35.00	1,279.16
1003E	SAND, STD BLK, 20/40, FARMINGTON, NM	CWT	50.0	9.980	499.00	35.00	324.35
1013E	SAND, STD BLK, 12/20, FARMINGTON, NM	CWT	60.0	11.570	694.20	35.00	451.23
10006	TREATMENT MONITORING VAN	JOB	1.0	1965.000	1965.00	.00	1,965.00
	SUB TOTAL				14183.96		9,907.34
98447	NEW MEXICO SALES TAX 4.5%						445.83
98439	NEW MEXICO, SAN JUAN SALES TAX .25%						24.78

PAY THIS AMOUNT



The Western Company
of North America

PO BOX 511943
DALLAS, TX 75251-1943

F. K. FORDS ASSOCIATES, INC.
3001 LAMAR STREET, SUITE 1402
DALLAS, TX 75202

INVOICE NO. 27319	OUR RECEIPT NO. 27319	DATE 11/1/43
YOUR ORDER NO.		

OUR ENGINEER CEREB		SIGNED FOR YOU BY PAUL THOMPSON	
FOR SERVING WELL NAME CHACO #1		COUNTY SAN JUAN	STATE NM 30

FEDERAL I.D. NO. C 75-0763494

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE/UNIT	GROSS AMOUNT	PERCENT DISC.	NET AMOUNT
	CHACO #1						11/1/43

PAY THIS AMOUNT

LINE DISCOUNTS APPLY? Y
 SALE CON: 4274.62 30.15
 SA CON: .00 .00
 BID CON: .00 .00
 BIST CON: .00 .00
 TOTAL CON: 4274.62 30.15

NET REVENUE: 9907.84

TAX AMOUNT: 588.30

ROY AMOUNT: .00

TOTAL: 10495.84
 =====

*** ADDED DISCOUNT ***
 REM: .00 .00
 DIS: .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 =====

ILLEGIBLE

PRE-TREATMENT SAFETY REPORT

CUSTOMER NAME		CUSTOMER LEASE		CONDUCTED ON LOCATION		FIELD RECEIPT NUMBER	
Meridian, K Edward Chaco #1				1-27-95		L309660	
DISTRICT IN WHICH MEETING IS HELD		NAME OF PERSON CONDUCTING MEETING				TYPE OF JOB	
Engt., N.M.		T.M. Crabb				Foam Frac	
EMPLOYEES PRESENT (INCLUDE ALL PERSONS ON LOCATION)							
1. Shewfield		10. R. Aspaas		19.		28.	
2. R. Ripper		11. R. Wilson		20.		29.	
3. J. Fitzpatrick		12. M. Culver		21.		30.	
4. J. Dolly		13. Jeff Patton		22.		31.	
5. L. Smith		14. Paul Thompson		23.		32.	
6. G. Macs		15.		24.		33.	
7. G. Schmidt		16.		25.		34.	
8. Steve Saline		17.		26.		35.	
9. J. Lyman		18.		27.		36.	
TOPIC DISCUSSED (ITEMS SPECIFIC TO THIS JOB, I.E. WEATHER, MSDS)							
topics noted below:							
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.							
None noted Steve Saline slipped on mud on Chaco #1							
SAID that he was okay; continued about muddy conditions							
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			
T.M. Crabb				Paul Thompson			



The Western Company of North America

REMIT TO: P.O. BOX 911543
DALLAS, TX 75391-1543

INVOICE NO.	OUR RECEIPT NO.	DATE
465306	309660	01/27/95
YOUR ORDER NO.		
27340	1314	

J. K. EDWARDS ASSOCIATES, INC.
1401 17TH STREET, SUITE 1400
DENVER CO 80202

SERVICES FROM OUR STATION AT	OUR ENGINEER	SIGNED FOR YOU BY
FARMINGTON STIMULATI	CRABB	PAUL THOMPSON
FOR SERVING WELL NAME		STATE
CHIACO #1	SAN JUAN	NM 30

FEDERAL ID. NO. G 75-0763484

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE/UNIT	GROSS AMOUNT	PERCENT DISC.	NET AMOUNT
J3916	MILEAGE, AUTO/PICK-UP/TREATING VAN	MILE	6.0	1.800	10.80	35.00	7.02
J3906	MILEAGE, HEAVY VEHICLE, PER UNIT	MILE	18.0	2.950	53.10	35.00	34.52
J4016	BULK MATERIAL DELIVERY, DRY	TONMT	360.0	1.000	360.00	35.00	234.00
F2016B	FRAC PUMP, 0 - 5000 PSI	4HRS	305.0	6.050	1845.25	35.00	1,199.41
E118AB	PROP PUMP CHG. MODERATE STRENGTH	CWT	290.0	.420	121.80	35.00	79.17
E118BB	PROP PUMP CHG. MODERATE STRENGTH	CWT	60.0	1.300	78.00	35.00	50.70
J4626B	PROPPANT CONCENTRATION CHG/6-9 LBS	GAL	2999.0	.130	389.87	35.00	253.42
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J2186	MISCELLANEOUS BLENDING CHARGE	HOURL	1.0	500.000	500.00	35.00	325.00
J0556	LIQUID ADDITIVE PUMP	JOB	1.0	750.000	750.00	35.00	487.50
J3216	FLUID DENSIMETER	JOB	1.0	575.000	575.00	35.00	373.75
H0846	J-4, LOW RESIDUE GUAR GUM	LB	300.0	4.850	1455.00	35.00	945.75
H0356	FRAC-CIDE 20	LB	6.0	37.000	222.00	35.00	144.30
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H1096	P-4, PH CONTROL	LB	50.0	3.050	152.50	35.00	99.13
E303F	SAND, AZ SILICA, 20/40, FARMINGT. NM	CWT	261.0	7.540	1967.94	35.00	1,279.16
E303E	SAND, STD BLK, 20/40, FARMINGTON, NM	CWT	50.0	9.980	499.00	35.00	324.35
E313E	SAND, STD BLK, 12/20, FARMINGTON, NM	CWT	60.0	11.570	694.20	35.00	451.23
J3006	TREATMENT MONITORING VAN	JOB	1.0	1965.000	1965.00	.00	1,965.00
	SUB TOTAL				14183.96		9,907.34
98447	NEW MEXICO SALES TAX 4.5%						445.83
98438	NEW MEXICO, SAN JUAN SALES TAX .25%						24.78

PAY THIS AMOUNT



The Western Company of North America

REMIT TO: P.O. BOX 511394
DALLAS, TX 75251-1394

J. R. SOUTHERS ASSOCIATES, INC.
2501 LETH BRIDGE, SUITE 1400
DENVER CO 80202

INVOICE NO. 27340	OUR RECEIPT NO. 27340	DATE 01/27/99
YOUR ORDER NO.		

SERVICES FROM OUR STATION AT		SIGNED FOR YOU BY	
OUR ENGINEER			
FOR SERVING WELL NAME		COUNTY	STATE
UNITED STATES		WYOMING	WYOMING

FEDERAL I.D. NO. C-75-0783484

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE/UNIT	GROSS AMOUNT	PERCENT DISC.	NET AMOUNT
99349	NEW MEX. FARMINGTON SALES FAX 1.188X						117.69

PAY THIS AMOUNT

The Western Company—Treatment Report

Date 1-27-95 District Fmgt, N.M. F. Receipt 1309660 Operator JK Edwards
Lease Chaco # Well No. IV Field NTIP Per Tunnel Cliffs Location Sec 18-T26N-R12W
County SAN JUAN State N. M. Stage Number 1 This Zone ☒ This Well ☒

WELL DATA OGE ☒ NG ☐ NO ☐ OO ☐ WD ☐ IW ☐ Misc. ☐ Depth TD/PB 1137 Formation Pictured Cliffs
Tubing Size 2 7/8 WT. 6.5 Set at: 1137 Type Packer N/A Set At N/A
Casing Size N/A WT. N/A Set From N/A To N/A Liner Size N/A Wt. N/A
Liner Set From N/A To N/A Open Hole: Size N/A From N/A To N/A Casing Perforations: Size .50
Holes Per Foot 2 Intervals 1113-1139
Previous Treatment N/A Prior Production N/A

TREATMENT DATA		LIQUID/GAS PUMPED AND CAPACITIES IN BBLs.	
Pad Used: Yes ☒ No ☐ Pad Type <u>20" J-4, 70 Q WF</u> Treating Fluid Type: Foam ☐ Water ☐ Acid ☐ Oil ☐ Treat. Fluid Vol. <u>7350</u> Gal. Base Fluid Type <u>20" J-4, 70 Q WF</u> Base Fluid Vol. <u>8274</u> Gal. Foam Qual.: <u>70</u> % Mitchell ☐ Slurry ☐ Surface ☐ Downhole ☐ Total Prop Qty. <u>35,000</u> Lbs. Prop Type: Sand ☒ WP-1 ☐ WP-3 ☐ Baux. ☐ Other <u>N/A</u> Prop Mesh Sizes, Types and Quantities <u>5000 #40/70, 5000 #12/20, 2500 #20/40 Az</u> Hole Loaded With <u>N/A</u> Treat Via: Tubing ☒ Casing ☐ Anul. ☐ Tubing & Anul. ☐ Ball Sealers: <u>N/A</u> In <u>N/A</u> Stages of <u>N/A</u> Types and Number of Pumps Used <u>2 Lucas 1000's, 1 Blender</u> Auxiliary Materials <u>300 #J-4, 50 #P-4, 8 #B-11, 50 gal LFF1, 6 #Fracide 20</u> <u>Pumped 7000 gal 20" J-4, 70 Q WF, Pumped 3500 gal 40/70 70 Q WF Pump</u> <u>5000 gal 120/40 Az, 70 Q WF, Pumped 1280 gal 2" 20/40 Az</u> <u>70 Q WF, Pumped 1820 gal 3" 2/20 Brady, 70 Q WF, Pumped</u> <u>252 gal 20" J-4 FLUSH</u>		Tubing Cap. <u>6.5</u> Casing Cap. <u>N/A</u> Annular Cap. <u>N/A</u> Open Hole Cap. <u>N/A</u> Fluid to Load <u>2</u> Pad Volume <u>50</u> Treating Fluid <u>125</u> Flush <u>6.0</u> Overflush <u>N/A</u> Fluid to Recover <u>197</u> Total N ₂ <u>138000</u> Total CO ₂ <u>N/A</u>	
PROCEDURE SUMMARY			

[illegible]

Treating Pressure: Min. 100 Max. 1460 Avg. 1100 Customer Representative Paul Thompson
Inj. Rate on Treating Fluid 9 - 11.7 - 30.0 Rate on Flush 12.8 Western Representative Tim Cabb, R. Martinez
Avg. Inj. Rate 30.0 I.S.D.P. 390 Flush Dens. lb./gal. 8.34 Distribution _____
Final Shut-in Pressure 280 in 15 Minutes _____
Operator's Maximum Pressure 3000 psi

Job Number 150814 Recommendation ID # Fm050248

CHACO #1, 02/17/95, L309746

**The Western Company
of North America**

[illegible]



REPLY TO: P.O. BOX 911543
DALLAS, TX 75391-1543

J. K. EDWARDS ASSOCIATES, INC.,
1714 STREET, SUITE 1400
DENVER CO 80202

INVOICE NO. 406076	OUR RECEIPT NO. 337000	DATE 02/17/93
YOUR ORDER NO. 1911		27940

FARMINGTON STIMULATI	MITCHELL	PAUL THOMPSON
CHACO #1	SAN JUAN	NH 30

FEDERAL I.D. NO. C 71-0703424

[illegible]

PAY THIS AMOUNT

1950-1951

THE UNIVERSITY OF CHICAGO

PRE-TREATMENT SAFETY REPORT

CUSTOMER NAME <i>Edwards</i>		CUSTOMER LEASE <i>Chow #1</i>		CONDUCTED ON LOCATION DATE <i>2/17/05</i> AM / PM		FIELD RECEIPT NUMBER <i>309746</i>	
DISTRICT IN WHICH MEETING IS HELD <i>Em80</i>			NAME OF PERSON CONDUCTING MEETING <i>L. M. Hoke II</i>			TYPE OF JOB <i>C/D</i>	
EMPLOYEES PRESENT (INCLUDE ALL PERSONS ON LOCATION)							
1. <i>Atgals</i>	10.	19.	28.				
2.	11.	20.	29.				
3.	12.	21.	30.				
4.	13.	22.	31.				
5.	14.	23.	32.				
6.	15.	24.	33.				
7.	16.	25.	34.				
8.	17.	26.	35.				
9.	18.	27.	36.				
TOPIC DISCUSSED (ITEMS SPECIFIC TO THIS JOB, I.E. WEATHER, MSDS)							
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 <i>Harry M. Hoke II</i>				PRINTED NAME OF COMPANY REPRESENTATIVE <i>Paul Thorne</i>			

JOB PERFORMANCE REPORT

District Franklin

Date 5/1/85

Field Receipt Number 3099

Customer Name J. K. Edwards

Well Name Cherry #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 Job

Was there a problem on this job? ☐ Yes ☒ No (If NO checked, do not complete form further)

A. RTS PERFORMANCE

- ☐ Under 1 Hour Late
☐ 1-4 Hours Late - No. Hours _____
☐ Over 4 Hours Late - No. Hours _____
 Cause: _____

- ☐ Borrowed Equip/Labor Late
☐ Delay on Prior Job
☐ District Personnel Late on Yard
☐ Equipment Failure on Location
☐ Equipment Failure on Way to Location
☐ Equipment Failure on Yard
☐ Hotshot Trip
☐ Lost Way to Location
☐ Outside Service Late
☐ Poor Communications
☐ Products Problem
☐ Road/Location Conditions
☐ Wait on Customer Rep
☐ Other _____

B. PRODUCT PERFORMANCE

- ☐ Additive Incorrect/Not Used
☐ Bad Water
☐ Contamination
☐ Defective Material
☐ Freezing
☐ Incorrect Base Material
☐ Incorrect Mixture
☐ PH
☐ Total Sand Does Not Match What Was Pumped
☐ Viscosity
☐ Volume of Fluid/Additives Recorded Does Not Match What Was Pumped
☐ Product Code _____
☐ Other _____

C. JOB PROCEDURE

- ☐ Cemented Csg/Tbg
☐ HP/Rate Requirements
☐ Improper Slurry Density
☐ Job Interruption
☐ No Returns
☐ Plug Not Bumped
☐ Screenout
☐ Other _____
 Cause: _____

- ☐ Equipment Failure
☐ Human Error
☐ Inadequate Job Design
☐ Insufficient Material
☐ Product Failure
☐ Well Conditions
☐ Other _____

D. EQUIPMENT

- ☐ Acid Frac/Pump
☐ Batch Mixer
☐ Blender
☐ Bulk Truck
☐ Cement Pump
☐ Chem Add
☐ Field Bin
☐ Frac Pump
☐ Goose
☐ Line Truck
☐ N₂ Pump
☐ N₂ Transport
☐ Q.C. Lab Van
☐ SPC/CMG
☐ Sand Conveyor
☐ Sandmaster
☐ Sand Truck/Air Can
☐ TMV
☐ Tractor
☐ Transport Cement
☐ Transport Liquid
☐ Van/Pickup
☐ Other _____

E. EQUIPMENT PERFORMANCE

- Problem Unit(s) _____
 Fluid End:
☐ Fluid End Block
☐ Manifold
☐ Packing
☐ Valve
☐ Other _____
 Pumping Equipment:
☐ Engine
☐ Hydraulics
☐ Power End
☐ Supercharge/Mix Pump
☐ Transmission
☐ Vaporizer
☐ Other _____
 Mixing Equipment:
☐ Agitator
☐ Chemical Pump
☐ Dry Chemical Feed
☐ Electrical
☐ Engine
☐ Hydraulic/Air Hoses
☐ Hydraulics
☐ OSHA Air Valves
☐ Recirculating Cement Mixer
☐ Sand Ramp
☐ Sandscrews
☐ Suction/Supercharge Pump
☐ Transmission
☐ Tub Level
☐ Other _____

Instrumentation/Monitoring:

- ☐ Cables/Connections
☐ Closed Loop Controllers
☐ Densimeter
☐ Flow Meter
☐ Martin Decker
☐ Model "C"
☐ Modem Data Line
☐ Printer/Plotter
☐ Software
☐ Transducer
☐ Viscometer
☐ WestComp
☐ WestFrac III
☐ WestFrac IV
☐ WestView
☐ Other _____

Miscellaneous:

- ☐ Air Blower
☐ Ball Injector
☐ Cement Head
☐ CO₂ Booster
☐ Failed Line/Fitting
☐ Hydraulic Power Pack
☐ Pressure Relief Valve
☐ Stake Bed
☐ Suction Manifold Trailer
☐ Wellhead Protector
☐ Other _____

F. OTHER PROBLEMS

- ☐ Accident
☐ Communications System
☐ Connection/Valve Leak
☐ No Ball Out
☐ Personal Injury
☐ Remote Data Transmission
☐ 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: Andy Tuttle

District Manager: Mark Knight

Well-Site Quality Control and Blend Schedule for Energized Fluids

(attachment to treatment report)

Operator: JK Edwards
Lease Name & Well No.: Ch2014

Date: 2/17/15
Field Receipt No.: 307746

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)? CO_2 N_2

Liquified Gas:

transport/tank number	1	2	3	4	5	6	Quantity SCF(sft ³)
SCF (sft ³) loaded	3506						
minus SCF (sft ³) after job	45						
SCF (sft ³) used							

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, lb _m (kg)							

Foaming Agent used?

Yes/No

list foaming agent tradename
loading

_____ gal/100 gal. liq. phase

Foamer dilution required?

Yes/No

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

_____ 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

DISTRICT Farmington DISPATCH SHEET NO. 150302 WELL NAME Chaco #1
CUSTOMER J K EDWARDS DATE OF JOB 2/17/95
ACCOUNT [] FIELD RECEIPT NO. 309746 FIELD RECEIPT DATE 2/17/95

ISSUED BY B DATE 2/17/72 RECEIVED BY _____ DATE _____

7MK

NCNA-1460 (11/89)

District <u>FARMINGTON</u>		Dist. No. _____		Job No. <u>1500 2</u>		Same As Job No. _____	
Field Receipt <u>1500</u>	2. _____	3. _____	4. _____	5. _____	6. _____		
Order Taken By <u>A. HEPWORTH</u>		D.R. Time <u>2-16-95</u>		Date <u>1500</u>		Operator P.O. No. _____	
Order Placed By <u>PAUL THOMPSON</u>		Phone <u>320-3194</u>		Credit Number _____		_____	
Company <u>J.K. EDWARDS</u>		Lease Name & No. <u>CHACO #1</u>					

Job Instructions

TAKE FOAM

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	2 ☐ Beads	2 ☐ 3001 - 5000	2 ☐ 1501 - 5000	2 ☐ Rework			
03 ☐ Acid 0 - 10%	10 ☐ X-Linked Water	17 ☐ Super Frac	3 ☐ Other	3 ☐ 5001 - 6000	3 ☐ 5001 - 20000	3 ☐ New Zone			
04 ☐ Acid 10.1 - 20%	11 ☐ Gelled Water	18 ☐ Misc.	4 ☒ None	4 ☐ 6001 - 8000	4 ☐ 20001 - 60000	4 ☐ Other			
05 ☐ Acid 20.1% & up	12 ☐ Other Water			5 ☐ 8001 - 10000	5 ☐ 60001 - 100000				
06 ☐ Gelled Acid	13 ☐ Foam			6 ☐ 10001 - 15000	6 ☐ 100001 - 100000				
07 ☐ Other Acid	14 ☐ Scale Treat.			7 ☐ 15001 & up					
		Gas:							
		1 ☐ CO ₂ 3 ☐ OTH							
		2 ☒ N ₂ 4 ☐ None							

Date & Time Wanted <u>2-17-95 0730</u>	Total Depth _____	Type & Amount Material Needed 1 <u>NITROGEN 200,000 SCFM</u>
Casing Size & Wgt. _____	Oper. Max Press <u>2000</u>	2 _____
Tubing Size & Wgt. <u>2 7/8</u>	Hole Size _____	3 _____
Flush In _____		4 _____
Top Connection <u>2" Reg or 1502 2" Thread</u>		5 _____

Directions to Well: WEST TO NAPE HEADQUARTERS 1/4 MI THROUGH 4WAY STOP TOWARD CHACO PLANT. 2 MI AFTER PAVEMENT ENDS LOCATION ON LEFT (BY CHACO 2R)

Miscellaneous Information: CHANGE OVER ON LOCATION TAKE HOSES

NAME	Yard Time	Unit 1	Unit 2	Service Engineer		Empl. No.	Unit	Act. Hrs.
<u>Jolly P</u>	<u>06:00</u>	<u>32.06</u>		<u>Mitchell</u>	<u>H.</u>		<u>0642</u>	
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 _____		
Loaning District _____						Arrived Next Job/Yard		
						Date _____ Time _____		
						Speedometer Reading		
						End _____		
						Start _____		

QTY	UNIT	DESCR.	UNIT	UNIT PRICE	AMOUNT
22.0		RELEASE, AUTO/STICK-UP/TREATING, GUN		1.201	26.42
22.0		RELEASE, HEAVY VEHICLE, PER UNIT		2.750	60.50
1.0		LOW RATE N2 PUMP, 0 - 5000 PSI		1110.000	1110.00
200.0		N2/100 SCF, 1ST 50000 SCF, FAIRINGTON, NM		1.870	374.00

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

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

WST # 27340 - 000	CC #: 1314	FR#: L209746	STATUS: S
NAME: J. K. EDWARDS ASSOCIATES, INC.	WELL: CHACO #1		
PROD REVENUE: 378.00	PURCHASE ORDER #:		
EQUIP REVENUE: 1214.50	PROPOSAL NUMBER :		
GROSS REVENUE: 1592.50	HOW TO PRINT?...: E EXTENDED		
LINE DISCOUNTS APPLY? N	=== ACCRUED DISCOUNTS ===		
SALES CON: 557.37 35.00	REG: .00 .00		
JG CON: .00 .00	JQ: .00 .00		
BID CON: .00 .00			
DIST CON: .00 .00	===== WARRANTY INFORMATION =====		
TOTAL CON: 557.37 35.00	WERE WE READY TO PUMP?		
NET REVENUE: 1035.13	WERE WE PROFESSIONAL?		
TAX AMOUNT: 61.47	DID EQUIPMENT PERFORM OK?		
ROY AMOUNT: .00	DID WE DO WHAT WE AGREED TO?		
	AMOUNT OF CREDIT REQUESTED...		
TOTAL: 1096.60	===== BILLING INSTRUCTIONS =====		

ILLEGIBLE

Completion
File

Completed File

RECEIVED

DEC 15 1997

PENDRAGON ENERGY
PARTNERS, INC.

WALSH ENGINEERING AND PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator: Pendragon Energy.
Date: 11-21-97
Field: Pictured Cliff Well
County: San Juan
Contractor: J.C. Well service

Well Name: Chaco # 1
Report No: 1
Location: Sec 18 26N 12W
State: NM
Supervisor: West Hahn

Work Summary: MOL & RU. Blow tubing down. Open casing valve to atmosphere, blew well 20 minutes, unloaded a slug of fluid, Kill well with 25 BBLs of produced water. ND wellhead. Pickup 2 jts of 1 1/2 IJ tubing and check for fill. Tag fill at 1159.65' PBDT at 1168' GL. TOH tubing. Inspect tubing, NU plug to bottom of bottom JT. TOH pipe and test to 500#, tubing held. TOH pipe ND plug. TIH and land as before at 1107' GL. NU wellhead. Hook up line to pit and left well unloading to the pit.

Daily Costs:	0	Tubulars:	0
Road and Loc.:	0	Wellhead Equip.:	0
Rig Costs:	912	Subsurface Equip.:	0
Anchors:	0	Artificial Lift Eq.:	0
Rig Move:	0	Sucker Rods:	0
Wireline:	0	Tanks:	0
Packers, BP.:	0	Separators, Dehys:	0
Rentals:	0	Flowlines:	0
Water:	210	Installation/Labor	0
Bits and Mills	0	Fittings, Valves, etc:	0
Permits:	0	Meters, LACT, etc:	0
Supervision:	250	Electrical Equip:	0
Trucking:	0	Misc:	0
Cement:	0		
Testing:	0		
		Total Daily Cost:	1392
		Cumulative Cost:	1392

to: Al Neal
2-21-95

WALSH ENGINEERING AND PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator:	J.K Edwards and Assoc	Well Name:	Chaco #1
Date:	Feb. 17, 1995	Report No.:	4
Field:	NIIP PC	Location:	NW 18 26N 12W
Contractor:	Polanco Bros.	Supervisor:	Paul Thompson

Work Summary. Well had unloaded all through the night. Killed well and rigged up Western. Unloaded well with nitrogen and cleaned out to PBTD at 1168'GL. Blew hole clean and TOH. Well unloaded. Killed well. Layed down 2-1/4" bit. Ran 34 joints (1110.35') of 1-1/2", 2.76#, J-55, IJ new tubing and landed at 1107'GL. Ran 1-1/2" NUE pin collar on bottom of bottom joint. Top perf at 1113'GL. Nippled down BOPs and nipped up wellhead. Well started unloading hard to the pit. Left well flowing. Estimate water rate at 50 BWPD and gas at 100 MCFD. Rigged down and moved to Sullivan #9.

Daily Costs:

anchors:	0	Tubulars: 1-1/2"	0
Rig Costs:	630	Wellhead Equipme	0
Rentals:	0	Subsurface Equip.:	0
Wireline:	0	Artificial Lift Equip.	0
Stimulation: N2	1,194	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
Drill collars:	0	Total Daily Cost:	2,014
		Cumulative Cost:	22,142

WALSH ENGINEERING AND PRODUCTION WORKOVER AND COMPLETION REPORT

Operator:	J.K Edwards and Assoc	Well Name:	Chaco #1
Date:	Feb. 16, 1995	Report No.:	3
Field:	NIIP PC	Location:	NW 18 26N 12W
Contractor:	Polanco Bros.	Supervisor:	Paul Thompson

Work Summary: Moved on location and rigged up Polanco Bros. rig. Blew well down and removed frac valve. Installed BOPs. Picked up 2-1/4" blade bit on 1-1/2" tubing and tagged fill at 1027'GL. PC perms are 1113' to 1139'GL. Loaded hole and cleaned out frac sand to 1115'GL and lost circulation. POH with 2 stands and shut down. Will unload with nitrogen tomorrow. Left casing open to pit.

Daily Costs:			
Anchors:	0	Tubulars: 1-1/2"	2,376
Rig Costs:	540	Wellhead Equiprrie	200
Rentals:	100	Subsurface Equip.:	0
Wireline:	0	Artificial Lift Equip.	0
Stimulation:	0	Sucker Rods:	0
Packers, BPs, e	0	Tanks:	0
Drilling mud:	0	Pressure Vessels:	0
Comp. Fluids:	130	Flowlines:	0
Csg Crew	0	Installation/Labor:	0
Frac Valve	0	Fittings, Valves, Ect	0
Supervision:	190	Meters, Lact, Ect.	0
Trucking:	400	Electrical Equip.:	0
Drill collars:	0	Total Daily Cost:	3,936
		Cumulative Cost:	20,128

WALSH ENGINEERING AND PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator.	J.K Edwards and Assoc	Well Name:	Chaco #1
Date:	Jan. 27, 1995	Report No.:	2
Field:	NIIP PC	Location:	NW 18 26N 12W
Contractor:	Polanco Bros.	Supervisor:	Paul Thompson

Work Summary: Rigged up Western. Fraced existing perms from 1113' to 1139' through 2-7/8" tubing. Fraced with 7000 gal pad of 70% nitrogen foam followed by 5000# of 40/70 sand at 1/2 - 1 PPG, 25,000# of 20/40 sand at 1-3 PPG, and 5000# of 12/20 sand at 3 PPG. Flushed to top perf with water. Job completed at 1215 hrs 1/27/95. ISIP = 390#, 5 min. = 340#, 10 min. = 310#, 15 min. = 280#. AIR = 30 BPM, MIR = 30 BPM. ATP = 1100#, MTP = 1340#. All fluid was produced water with 20# of linear gel/ 1000gal, foamer, bactericide, pH buffers, and enzyme breaker. Total fluid = 196 bbls, total nitrogen = 138,000 SCF. Installed flow line and opened well to pit through 1/4" choke at 1300 hrs.

Daily Costs:

Anchors:	0	Tubulars: 3-1/2"	0
Rig Costs:	0	Wellhead Equipme	0
Rentals:	0	Subsurface Equip.:	0
Wireline:	13,514	Artificial Lift Equip.	0
Stimulation:	0	Sucker Rods:	0
Packers, BPs, e	0	Tanks:	120
Drilling mud:	0	Pressure Vessels:	0
Comp. Fluids:	300	Flowlines:	0
Csg Crew	0	Installation/Labor:	0
Frac Valve	500	Fittings, Valves, Ect	0
Supervision:	190	Meters, Lact, Ect.	0
Trucking:	0	Electrical Equip.:	0
Drill collars.	0	Total Daily Cost:	14,624
		Cumulative Cost:	16,192

WALSH ENGINEERING AND PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator:	J.K Edwards and Assoc	Well Name:	Chaco #1
Date:	Jan. 26, 1995	Report No.:	1
Field:	NIIP PC	Location:	NW 18 26N 12W
Contractor:	Polanco Bros.	Supervisor:	Paul Thompson

Work Summary: Move Polanco Bros. rig on location and rig up. Pulled and layed down 35 jts. of 1" IJ tubing. Tagged PBTD at 1168'GL. Perfs are from 1113' to 1139'GL. Installed frac valve. Rigged down and moved to Bengal A #4R. Will frac PC 1/27/95.

Daily Costs:			
Location:	200	Tubulars: 3-1/2"	0
Rig Costs:	700	Wellhead Equipme	0
Rentals:	75	Subsurface Equip.:	0
Wireline:	0	Artificial Lift Equip.	0
Stimulation:	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:	161	Meters, Lact, Ect.	0
Trucking:	0	Electrical Equip.:	0
Anchors:	450	Total Daily Cost:	1,586
		Cumulative Cost:	1,568

Walsh Engineering and Production

Completion Prognosis for J. K. Edwards Chaco #1

Location: NW/4 Sec 18 T26N R12W
San Juan County, NM

Date: January 22, 1995

Field: NIIP Pictured Cliffs
Minerals: BLM NM-22046

Elev: GL 5989
PSTD 1137'GL
Perfs 1113-1139

Procedure:

1. MOL and RU completion rig. Hold safety meeting.
2. Blow well down and kill with water if necessary.
3. ND tubing head and NU BOP. NU 2-3/8" relief line.
4. Pick up extra joints of 1-1/4" tubing and TIH and check for fill. TOH and lay down 1-1/4" tubing. Tally tubing. Clean out well with sand bailer if necessary.
5. Install 5000# frac valve on 2-7/8" tubing. Rig up frac equipment and pressure test surface lines.
6. Fracture with 5,000# of 40/70 sand, 25,000# of 20/40 sand, and 5000# of 12/20 sand in a 70 % quality N2 foam. Fluid is 20# guar gel. Pump rate at 30 BPM and expected treating pressure is 1750 psig. Max treating pressure is 3000 psig. Treat with the following schedule:

Stage	Foam Vol. (Gals.)	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	7,000	2,100	0
1.0 ppg 40/70	5,000	1,500	5,000
1.0 ppg 20/40	5,000	1,500	5,000
2.0 ppg 20/40	10,000	3,000	20,000
3.0 ppg 12/20	1,666	500	5,000
Flush	260	180	0
Total	28,926	8,680	35,000

9. Close frac valve. RD frac company and install flowline with 1/4" ceramic choke. Flow well back to pit overnight.
10. When well dies, remove frac valve and install tubing head. NU BOPs.
11. TIR with sand bailer on 1-1/2" tubing and clean out to PBTD at 1137'GL. TOH.
12. Set 1-1/2" near top PC perf at approximately 1113'GL. ND BOPs and nipple up wellhead.
13. Rig down and release rig. Set separator and return well to production.

Paul C. Thompson

Paul C. Thompson, P.E.

ROBERT L. BAYLESS

PETROLEUM CLUB PLAZA BUILDING
P. O. BOX 1541
FARMINGTON, NEW MEXICO 87401

MERRION & BAYLESS

Chaco #1

- 12-12-76: Location staked by Echohawk.
- 01-03-77: R. L. Bayless to meet U.S.G.S., B.L.M., and archeologist. Meeting cancelled due to snow.
- 01-05-77: R. L. Bayless met with U.S.G.S., B.L.M., and archeologist. Terrain requires unorthodox location. Waiting to hear from Aztec office of New Mexico Oil Conservation Commission.
- 01-07-77: Decided against unorthodox location. Did not pursue hearing.
- 02-17-77: Moved in L&B Speed Drill; drilled 7-7/8" hole to 39 feet and ran 39 feet of 5-1/2", 15.5#, J-55 casing and cemented with 8 sax cement. Finished at 8:00 p.m., February 16.
- 02-18-77: Drilling at 400 ft.
- 02-19-77: Drilling at 700 ft.
- 02-20-77: Drilling at 1000 ft.
- 02-22-77: TD at 1350 ft.
- 02-23-77: Ran Electric, Sonic, and Density Logs (5989 ft. G.L. reference datum).
- 02-24-77: Ran 43 joints of 2-7/8", NUE, 10V, J-55 blue band casing (M.L. - 1341.21 ft.). Set at 1340 ft. G.L. Cemented casing with 100 sax of Class "G" cement. Wiper plug down at 3:30 p.m. Bumped with 1000 PSIG.
- 03-03-77: Moved in swabbing unit and rigged up. (Drake Well Service.) Rigged up Blue Jet perforators. Ran cement bond log from PBTD to 700 ft. PBTD by log at 1187 ft. G.L. Swabbed fluid level down to 900 ft. G.L., ran Gamma Ray Collar Correlation log from PBTD to surface. Perforated lower zone 1134-39 ft. G.L. per Electric log with 2 SPF. Received immediate gas to surface, no liquid. Ran swab; found water level at 875 ft. G.L. EST. Made a run and pulled most of the water out of the hole. Gauged at 35 MCF/day on a 1/4" plate. Shut well in for 15 minute build-up. Final pressure 140 PSIG. Ran in with swab; no water in hole. Perforated middle zone 1126-28 ft. G.L. per Electric log with 2 SPF. Noted slight increase in gas to 45 MCF/day gauged on 1/4" plate. Shut well in for 15 minute pressure build-up to 130 PSIG. Perfed top zone 1113-19 ft. G.L. per Electric log with 2 SPF. Immediate increase of gas to surface. Gauged initial flow rate for 15 minutes at 320 MCF/day on a 1/2" plate. Shut in pressure to 240 PSIG in 30 seconds. Released rig and shut well in.

Chaco #1
Daily Report
Page 2

03-23-77 --- Gauged flow at 342 MCF/day - dry.

10-08-77 --- Rig up Farmington Well Service. Blow well down @ 11:00 a.m. Run 1120' of 1" IJ tubing. Landed tubing, made up wellhead and put back on line approximately 4:00 p.m. Making estimated 118 MCF/day from El Paso meter.

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

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.6.

5. LEASE DESIGNATION AND SERIAL NO.

NM-22046

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Chaco

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 18, T26N, R12W

12. COUNTY OR PARISH

San Juan

13. STATE

N.M.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

Merrion & Bayless

3. ADDRESS OF OPERATOR

P.O. Box 1541, Farmington, N.M. 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1846 FNL and 1806 FWL

At top prod. interval reported below

same

At total depth

same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

2/17/77

16. DATE T.D. REACHED

2/22/77

17. DATE COMPL. (Ready to prod.)

3/3/77

18. ELEVATIONS (DF, ABB, RT, GR, ETC.)*

5989 G.R.

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

1350 ft. G.R.

21. PLUG, BACK T.D., MD & TVD

1137 ft. G.R.

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

Surf-TD

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Picture Cliff (1113'-39') Gross Interval

25. WAS DIRECTIONAL SURVEY MADE

no

26. TYPE ELECTRIC AND OTHER LOGS RUN

Electric, Acoustic, Density, Cement Bond, Collar

27. WAS WELL COBED

no

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
5-1/2"	15.5	39	7-7/8"	w/8 sacks	
2-7/8"	6.5	1340	4-3/4"	w/100 sacks class "G"	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

1113-19' w/2 PF

1126-28' w/2 PF

1134-39' w/2 PF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in) Shut-in Awaiting Connection	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
3/23/77	2	1/2"	→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
	62 PSIA	→	--	342	--		

4. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

5. LIST OF ATTACHMENTS

Electric, Acoustic, Density, Cement Bond, Collar logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Steven L. Lunn

TITLE

Engineer

DATE

March 29, 1977

*(See Instructions and Spaces for Additional Data on Reverse Side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.

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 WELL ☐ GAS WELL ☒ OTHER		5. LEASE DESIGNATION AND SERIAL NO. NM 22046	
2. NAME OF OPERATOR J. Gregory Merrion & Robert L. Bayless		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P.O. Box 1541, Farmington, New Mexico 87401		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1846 FNL and 1806 FWL		8. FARM OR LEASE NAME Chaco	
14. PERMIT NO.		9. WELL NO. #1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5989 G.L.		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 18, T26N, R12W	
		12. COUNTY OR PARISH San Juan	
		13. STATE N.M.	

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
(Other) <u>Well Completion</u> ☒	

(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 pertinent to this work.)*

02-17-77: Moved in L&B Speed Drill; drilled 7-7/8" hole to 39 feet and ran 39 feet of 5-1/2", 15.5#, J-55 casing and cemented with 8 sax cement. Finished at 8:00 p.m., 02-16-77.

02-18-77: Drilling at 400 ft.

02-19-77: Drilling at 700 ft.

02-20-77: Drilling at 1000 ft.

02-22-77: TD at 1350 ft.

02-23-77: Ran Electric, Sonic, and Density Logs (5989 ft. G.L. reference datum).

02-24-77: Ran 43 joints of 2-7/8", NUE, 10V, J-55 blue band casing (M.L. - 1341.21 ft.). Set at 1340 ft. G.L. Cemented casing with 100 sax of class "G" cement. Wiper plug down at 3:30 p.m. Bumped with 1000 PSIG.

03-03-77: Moved in swabbing unit and rigged up (Drake Well Service). Rigged up Blue Jet perforators. Ran cement bond log from P.B.T.D. to 700 ft. PBTD by log at 1187 ft. G.L. Log indicated excellent bond to top of cement at 830 ft. G.L. Swabbed fluid level down to 900 ft. G.L., ran Gamma Ray Collar Correlation log from PBTD to surface. Perforated lower zone 1134-39 ft. G.L., per Electric log with 2 SPF. Received immediate gas to surface, no liquid. Ran swab; found water level at 875 ft. G.L. EST. Made a run and pulled most of the water out of the hole. Gauged at 35 MCF/day on a 1/4" plate. Shut well in for 15 minute (Over)

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

SIGNED Steve L. ShunnTITLE EngineerDATE March 7, 1977

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

MAR 8 1977

Misc.
Corresp.

Mi 1012000 1000 1000 1000

Rich Fromm Notes:

Chaco #1

3/3/77 PERF 1134/39' , 1126/28' , 1113/19'

1/27/95 FRAC All PERFS w/ 70% N2 Foam w/ 20#/1000 gal linum gel

5000* 40/70, 25,000* 20/40, 5000* 12/20 30 BPM
Total 196 Bbls, 138 MSCF

2/12/95 Cleaned well out from 1027' GL to 1166' GL PBD
Rm 1 1/2" tubing to 1107' GL

11/21/97 Tagged Fill @ 1160'