



The Western Company—Treatment Report

N₂ 311878

Date 5-10-95 District Farmington F. Receipt 311927 Operator JK Edwards
 Lease Chaco Well No. 5 Field Basin Fruitland Location 1-26N-13W
 County San Juan State New Mexico Stage Number 1 This Zone X This Well ☐

WELL DATA OGI ☐ NGI ☐ NOGI ☐ OOG ☐ WDI ☐ IWI ☐ Misc. ☐ Depth (D) PB 1402 Formation Fruitland Coal
 Tubing Size 2 3/8 WT. 6.5 Set at: 70 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 1165-1192
 Previous Treatment — Prior Production —

TREATMENT DATA Pad Used: Yes ☒ No ☐ Pad Type 20" x 41 linear @ 70.3 ft
 Treating Fluid Type: Foam ☒ Water ☐ Acid ☐ Oil ☐ Treat. Fluid Vol. 30600 Gal.
 Base Fluid Type H₂O @ 2% KCL Base Fluid Vol. 13440 Gal.
 Foam Qual.: 30 % Mitchell ☒ Slurry ☐ Surface ☐ Downhole ☒ Total Prop Qty. 36000 Lbs.
 Prop Type: Sand ☒ WP-1 ☐ WP-3 ☐ Baux. ☐ Other —
 Prop Mesh Sizes, Types and Quantities 36000 #20-40 Arizona
 Hole Loaded With H₂O Treat Via: Tubing ☒ Casing ☐ Anul. ☐ Tubing & Anul. ☐
 Ball Sealers: — In — Stages of —
 Types and Number of Pumps Used 2 B/L Pumps with 1000's (3 B/L R K W2)
 Auxiliary Materials 6 # 1/2" x 20' 1000 gH J-4 / 60' gH J-5 - Foam / 10 # B-11

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 162
 Flush 6
 Overflush 0
 Fluid to Recover 223
 Total N₂ 233,000
 Total CO₂ —

PROCEDURE SUMMARY FRAC AS FOLLOWS 7650 gal. Pad 5000 gal. 1/2" PL
6700 gal. 1" PL 7950 gal. 2" PL 3300 gal. 3" PL
252 gal. Flush OR (water only)

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
9:40	5200							PT Lines
9:46						46	0	5-7000 Shut Pad
9:46	1440		55		2.5	34	46	6800 1/2"
9:52	1600		38		2.9	49	80	7900 1"
9:58	1800		55		6.4	70	129	8200 2"
10:07	1960		24		9.0	34	199	9000 3"
10:11	2260		34		9.4	0	233	10100 Flush (cut N ₂)
10:12	1620		6		16			Shut do. 1510:620
								5 min 550 psi
								10 min 500 psi
								15 min 450 psi
								30 min psi
								60 min psi

Treating Pressure: Min. 1450 Max. 2290 Avg. 1800 Customer Representative Paul Thompson
 Inj. Rate on Treating Fluid 25 Rate on Flush 13.5 Western Representative B. H. Walker J. SSA
 Avg. Inj. Rate 25 I.S.D.P. 620 Flush Dens. lb./gal. — Distribution Linear
 Final Shut-in Pressure — in 60 Minutes —
 Operator's Maximum Pressure 3000

Job Number — Recommendation ID # —

Completion File |

Completion File

WALSH ENGINEERING & PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator: J. K. EDWARDS ASSOCIATES Well Name: Chaco #5
 Date: 5/13/95 Report No: 3
 Field: PC Location: County: San Juan State: N.M.
 Contractor: Polanco Bros. Supervisor: West Hahn

Work Summary:

Arriva AM on location. Pump 40 bbls H2O to kill well and nipple down 2" valve. Trip in hole 2 stand of tubing plus 1 20' 1-1/2" IJ sub. Land tubing at 1160.78' GL. Top perf at 1165'. Nipple up 1-1/2 x 2-3/8 8 rd, 2-3/8 collar, 2-3/8 x 2" x-over and 2" valve. Well trying to unload H2O. Pump another 50 bbls in casing slowly to kill well. Nipple up 2" valve and shut well in.

NOTE: Took 1 joint of 1-1/2 IJ tubing to Frontier Inspection, cut and threaded tubing into 1-20' x 1-1/2 10 RD IJ sub.

NOTE: Casing 150, tubing 150 AM

Daily Costs:

Road & Location		Tubulars	
Rig Cost	510.00	Wellhead Equipment	
Equipment Rental		Subsurface Equipment	
Logging & Perforating		Artificial Lift Equipment	
Stimulation		Sucker Rods	
Testing		Tanks	
Cementing		Pressure Vessels	
Completion Fluids		Flowlines	
Contract Services		Installation/Labor	
Miscellaneous Supplies		Fittings, Valves, Etc...	
Engr. & Supervision	125.00	Meters, Lact, Etc...	
Trucking		Electrical Equipment	
Other		Total Daily Cost	635.00
		Cumulative Cost	23536.00

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"
Rod cube				Pump	Rod cube			
API Pump Size					API Pump Size			
Depth				Tubing Bottom	Depth			
Length				Gas or Muds Anchor	Length			
Length				Perforated Nipple	Length			
Size				Sealing Nipple	Size			
Type				Tubing Count	Type			
Length				Anchor Catcher	Length			
Joints					Joints			
Tubing Subs				How Set	Tubing Size			
Type					WT Grade Thread			
Depth				How Set	Tubing subs			
					Type			
				How Set	Depth			

WALSH ENGINEERING & PRODUCTION WORKOVER AND COMPLETION REPORT

Operator: J. K. EDWARDS ASSOCIATES Well Name: Chaco #5
 Date: 5/12/95 Report No: 2
 Field: PC Location: County: San Juan State: N.M.
 Contractor: Polanco Bros. Supervisor: West Hahn

Work Summary:

Move on location and rig up. Well blowing est. 100 MCF/d. lifting H2O/free sand. Rig up pump and pit. Kill well with 60 bbls H2O and nipple down frac valve. Nipple up wellhead and BOP. Well unloading, pump another 80 bbls of H2O in casing while tripping in 37 joints of 1-1/2" IJ tubing. Tag fill at 1192.93'GL. Perfs at 1165'-1192'GL. Nipple up nitrogen truck to clean out. Clean out to hard tag at 1250'GL, PBSD 1265'GL. Bleed off nitrogen and nipple down nitrogen truck. Trip out of hole with 4 joints of tubing and lay down. Trip out hole with 2 stands and nipple up 2" valve to shut well in. Shut down rig for the day due to high winds.

Daily Costs:

Road & Location		Tubulars	
1st Cost	1950.00	Wellhead Equipment	300.00
Equipment Rental		Subsurface Equipment	
Logging & Perforating		Artificial Lift Equipment	
Stimulation nitrogen	1360.00	Sucker Rods	
Tubing		Tanks	
Cementing		Pressure Vessels	
Completion Fluids		Flowlines	
Contract Services		Installation/Labor	
Miscellaneous Supplies		Fittings, Valves, Etc...	
Engr. & Supervision	250.00	Meters, Lact, Etc...	
Trucking	300.00	Electrical Equipment	
Other		Total Daily Cost	4160.00
		Cumulative Cost	22901.00

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"
API Pump Size	Pump	API Pump Size
Depth	Tubing Bottom	Depth
Length Plugged or Open	Gas or Muds Anchor	Length Plugged or Open
Length Size & No Holes	Perforated Nipple	Length Size & No Holes
Size Type Depth	Sealing Nipple	Size Type Depth
Length Joints	Tubing Count	Length Joints
Tubing Subs		Tubing Size Wt Grade Thread
Type Depth	Anchor Catcher	Tubing subs
		Type Depth
		How Set

WALSH ENGINEERING AND PRODUCTION WORKOVER AND COMPLETION REPORT

Operator:	J.K Edwards and Assoc	Well Name:	Chaco #5
Date:	May 10, 1995	Report No.:	1
Field:	NIIP PC	Location:	SE 1 26N 13W
Contractor:	Polanco Bros.	Supervisor:	Paul Thompson

Work Summary: Petro ran GR/CCL and perforated 1165' - 1169' and 1174' - 1192' at 1 SPF. Total of 22 (0.32" holes). Same intervals had previously been perforated at 2 SPF. Rig up BJ/Western. Fraced PC with 7650 gal pad of 70% nitrogen foam followed by 35,900# of 20/40 sand at 1/2 to 3.0 PPG. Job completed at 1030 hrs. ISIP = 620#, 5min. = 550, 10 min. = 500, 15 min. = 450, 30 min. = 300, 60 min. = 150#. AIR = 25 BPM, ATP 1800#, MIR = 28 BPM, MTP = 2290#. Total nitrogen = 233 MSCF, total fluid = 223 bbls. All fluid was produced water with 20#/1000 linear gel, foamer, pH buffers, bacteriacide, and enzyme breakers. Installed flow line and opened well to pit through 3/8" choke at 1200 hrs. 5/10/95.

Daily Costs:

Location:	0	Tubulars: 3-1/2"	0
Rig Costs:	0	Wellhead Equipme	0
Rentals:	0	Subsurface Equip.:	0
Wireline:	2,151	Artificial Lift Equip.	0
Stimulation:	15,520	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:	18,741
		Cumulative Cost:	18,741

WALSH ENGINEERING & PRODUCTION WORKOVER AND COMPLETION REPORT

Operator: W. Edwards & Assoc. Well Name: Chase #5
 Date: 2-8-55 Report No: 8
 Field: N. 100 1/2 Location: _____ County: San Juan State: N.M.
 Contractor: _____ Supervisor: _____

Work Summary:

Nipple up 2 1/4" drill pit, Bumper sub, & Drill collar. Bit would not fit through 2 1/4" - 2' sub. T.O.H. - Nipple up & T.O.H. 1-2 1/4" Bumper sub, bumper sub, 11 drill collars, bumper sub, 32 1/2" Drill pipe. Mill on plug 1/2" above Approx 2" of hole. T.O.H. - nipple down shoe and inspect. All of the cut right when off of shoe, Approx 2". Nipple up gripple T.O.H. Tap on top of retrieving neck. Pull twice to 15,000" 2nd pull 1/4" turn to the right, felt plug move. 3rd pull while turning to the right - plug pulled free. Plug pulled 150' at 500" to 15000" T.O.H. Tubing, collars, gripple, bridge plug. Trip in hole 38 1/2" up 1 1/2" T.S. to 1236.20 G. Bottom perf at 1192.61 = 446.20 Ret hole 100' 20 min at 200' small amounts of cement in return. T.O.H. tubing and nipple. Nipple up 1 1/2" Face valve - Rig down moving to Chase #1-5

Daily Costs:

Field & Location		Tubulars	Drill pipe 110'	
Rig Cost		Wellhead Equipment		
Equipment Rental		Subsurface Equipment		
Logging & Perforating		Artificial Lift Equipment		
Stimulation		Sucker Rods		
Testing		Tanks		
cementing		Pressure Vessels		
Completion Fluids		Flowlines		
Contract Services		Installation/Labor		
Miscellaneous Supplies		Fittings, Valves, Etc...		
Eng. & Supervision	1250-	Meters, Log, Etc...		
Trucking		Electrical Equipment		
Other		Total Daily Cost		
		Cumulative Cost		

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"
Drill sub								Red sub			
Pump size				Pump				API Pump size			
Length				Tubing Bottom				Depth			
Length				Plugged or Open				Length		Plugged or Open	
Length				Size & No Holes				Length		Size & No Holes	
Type		Depth		Coating Nipple				Size		Type	
Length				Joints				Length		Joints	
Drilling Sub								Tubing Size		Wt Grade Thread	
Type				Depth				Tubing sub			
				Anchor Catcher				Type		Depth	
								How Set			
				Packer				Type		Depth	

ENGINEERING & PRODUCT

WORKOVER AND COMPLETION REPORT

Operator: J.K. Edwards Well Name: Chaco #5
 Date: 2/9/95 Report No: 7
 Field: NIIP Location: County: San Juan State: N.M.
 Contractor: Polanco Bros. Supervisor: West Hahn

Work Summary:

AM: TIH with new retrieving head and bumper sub. Set down on bridge plug - 1/4 turn to the right. Plug would not release. Nipple up swivel, circulate on top of bridge plug to clean out fill. 0 fill. Make several attempts to release bridge plug, no luck. TOH 1 jt 1-1/2 and swivel and lay down. TOH 17 stands tubing subs, bumper sub, retrieving head, nipple down retrieving head and nipple up 2-5/16 grapple. TIH to 659.77' to tight spot. Grapple would not fall through. TOH tubing and grapple, TIH 2-1/4 grapple, bumper sub, tubing to top of retrieving neck on the plug. Latch onto neck, make several attempts to release plug. no success. Grapple pulled free. TOH with tubing, grapple. Inspect grapple, grapple head became worn, would not hold. Shut down for the day. Will return AM 2/9/95 with 4 drill collars, 1100' drill pipe, new grapple and a shoe and 1 2-5/16 drill bit to drill out tubing to insure bridge plug will travel to surface. NOTE: Mountain States people on location;

Daily Costs:

Road & Location
 Rig Cost
 Equipment Rental
 Logging & Perforating
 Stimulation
 Testing
 Cementing
 Completion Fluids
 Contract Services
 Miscellaneous Supplies
 Engr. & Supervision
 Trucking
 Other

1200.00
250.00

Tubulars
 Wellhead Equipment
 Subsurface Equipment
 Artificial Lift Equipment
 Sucker Rods
 Tanks
 Pressure Vessels
 Flowlines
 Installation/Labor
 Fittings, Valves, Etc...
 Meters, Gauges, Etc...
 Electrical Equipment
 Total Daily Cost
 Cumulative Cost

26958.00

Costs will be figured at end of month and we will invoice you for the balance due.

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"
Rod sub				Pump	Rod sub			
API Pump Size					API Pump Size			
Depth				Tubing Bottom	Depth			
Length		Plugged or Open		Gas or Muds Anchor	Length		Plugged or Open	
Length		Size & No Holes		Perforated Nipple	Length		Size & No Holes	
Size	Type	Depth		Sealing Nipple	Size	Type	Depth	
Length		Joints		Tubing Count	Length		Joints	
Tubing Subs				Anchor Sinker	Tubing Size Wt Grade Thread			
Type					Tubing sub			
Type				Packer	Type			
Type					How Set			
Type				Packer	Type			
Type					Depth			

WALSH ENGINEERING & PRODUCT

WORKOVER AND COMPLETION REPORT

Operator: J.K. Edwards Associates Well Name: Chaco #5
 Date: 2/7/95 Report No: 5
 Field: NIIP PC Location: County: San Juan State: N.M.
 Contractor: Polanco Bros. Supervisor: West Mann

Work Summary:

TIM 2 jts 1-1/2 IN to 751.36'. Tag fill, circulate into fill, plug retrieving head. TOH 2 jts 1-1/2. Regain circulation. Circulation pressure 500# - partial plug. Work tubing string up/down, circulate plug out. TOH 1 jt 1-1/2. Nipple up power swivel, rotate while circulation into full. Clean out to top of bridge plug. Circulate fill, fluid returns are clean. Catch the retrieving neck on the bridge plug with the retrieving head. Make numerous attempts to remove bridge plug. Plug would not release. Turn 1/4 turn to right and pull 5000 to 15000 over while circulation. Release retrieving neck completely then got back on it and try again. Plug would not release. TOH with retrieving head. Retrieving head had come apart missing 1 6" long x 1/2 wide x 1/4 thick piece of metal. Shut down for the day. Will return AM 2/8/95 with new retrieving head to remove bridge plug. NOTE: MOUNTAIN STATES PEOPLE WERE ON LOCATION TO REMOVE BRIDGE PLUG.

Daily Costs:

Road & Location		Tubulars 4 drill collars	600.00
Rig Cost	1750.00	Workhead Equipment	
Equipment Rental		Subsurface Equipment	
Logging & Perforating		Artificial Lift Equipment	
Stimulation		Sucker Rods	
Testing		Tanks	
Cementing		Pressure Vessels	
Completion Fluids		Flowlines	
Contract Services		Installation/Labor	
Miscellaneous Supplies		Fittings, Valves, Etc...	
Engr. & Supervision	250.00	Meters, Logs, Etc...	
Trucking		Electrical Equipment	
Other		Total Daily Cost	2500.00
		Cumulative Cost	26950.00

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"
Rod subs					Rod subs			
API Pump Size				Pump	API Pump Size			
Depth				Tubing Bottom	Depth			
Length				Gas or Mud Anchor	Length			
Length				Perforated Nipple	Length			
Size				Sealing Nipples	Size			
Length				Tubing Count	Length			
Tubing Subs					Tubing Size			
Type				Anchor Chain	Tubing subs			
Depth					Type			
					Depth			

WALSH ENGINEERING & PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator: J.K. Edwards Associates Well Name: Chaco #5
 Date: 2/6/95 Report No: 5
 Field: NIEP PC Location: County: San Juan State: N.M.
 Contractor: Polanco Supervisor: West Hahn

Work Summary:

Trip in hole 1 2-1/4 3 blade mill, bit sub, 4 drill collars 124.15'. TTH 17 jts 1-1/2" 556.97'. Tag cement at 683.12'. Drill through cement at 1030'. Total cement drilled 345.88'. Circulate 20 min after drilling through cement. Nipple down and TOR. Lay down 3 jts of tubing. Stand the rest of tubing in derrick. Nipple up to pressure test casing. 1500# pressure test casing held. Lay down 4 drill collars. Nipple up retrieving tool and trip in 22 jts tubing and shut in. Will return AM 2/7/95 to remove bridge plug and clean out.

Daily Costs:

Road & Location		Tubulars 2-7/8	1770.00
Rig Cost	1950.00	Wellhead Equipment	
Equipment Rental		Subsurface Equipment	
Logging & Perforating		Artificial Lift Equipment	
Stimulation		Sucker Rods	
Testing/Pressure test	127.00	Tanks	
Cementing		Pressure Vessels	
Completion Fluids		Flowlines	
Contract Services		Installation/Labor	
Miscellaneous Supplies		Findings, Valves, Etc... drill	154.00
Engr. & Supervision	250.00	Meters, Etc... bit	
Trucking Monarch	150.00	Electrical Equipment	
Other		Total Daily Cost	4381.00
		Cumulative Cost	24358.00

Well Record

Pulled from well				Equipment	Run in well			
1"	7/8"	3/4"	5/8"		1"	7/8"	3/4"	5/8"
Rod subs				Sucker Rod Count	Rod subs			
API Pump Size				Pump	API Pump Size			
Depth				Tubing Bottom	Depth			
Length				Gas or Muds Anchor	Length			
Length				Perforated Nipple	Length			
Size				Sealing Nipple	Size			
Length				Tubing Count	Length			
Tubing Subs					Tubing Size			
Type				Anchor Catcher	Tubing Joints			
					Type			
					How Set			

WALSH ENGINEERING & PRODUCTION

W. J. Walz
Sec 5

WORKOVER AND COMPLETION REPORT

Operator: J. K. Edwards Well Name: Chaco #5
 Date: 2/3/95 Report No: 4
 Field: NIPD PC Location: SE 1, 26N, 13W County: San Juan State: N.M.
 Contractor: Polanco Bros. Supervisor: West Hahn

Work Summary:

TOH 956.26' of 2-7/8" and lay down. TIH 960' of 1-1/2" and tag fill. Pick up 50'.
 Circulate 50 bbls H2O, lower tubing to tag and plugged tubing. TOH 1-1/2" and stand in
 derick. TIH 1 2-7/8 10 Rd to 8 Rd change over and 29 jts of 2-7/8 and tagged fill.
 Pick up 1 jt of 2-7/8" 30.95'. Start circulating. Circulate in to 956.22' top of existing
 casing in hole. TOH 1 jt 2-7/8 nipple up 2-10', 1-2' sub and 1 jt of 2-7/8. Trip in hole
 while circulating to surface. Tag existing tubing, screw into and pick up on tubing to
 insure connection. Connection made up. Land tubing, nipple down BOP and nipple up wellhead
 wellhead valves and test gauge. Pressure test 2-7/8 to 1000#. Shoot 2 holes 180' off
 circulate through pers to surface. Circulate 20 bbls H2O, 160 sxs 2 1/2 CaCl2 to surface.
 Displaced 5 bbls at 1 bbl/minute. Locked up 4bbls into displacement 500# 268.8' cement to
 drill 2/6/95.

Daily Costs:

Road & Location		Tubulars	
Rig Cost	1750.00	Wellhead Equipment	
Equipment Rental		Subsurface Equipment	
Logging & Perforating Petro	768.04	Artificial Lift Equipment	
Stimulation		Sucker Rods	
Testing 2/2 & 2/3/95	2766.78	Tanks	
Cementing		Pressure Vessels	
Completion Fluids		Flowlines	
Contract Services		Installation/Labor	
Miscellaneous Supplies		Fittings, Valves, Etc...	
Engr. & Supervision	250.00	Meters, Lact, Etc...	
Trucking	300.00	Electrical Equipment	5835.00
Other		Total Daily Cost	20057.00
		Cumulative Cost	

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 subs		Red subs
API Pump Size	Pump	API Pump Size
Depth	Tubing Bottom	Depth
Length Plugged or Open	Gas or Muds Anchor	Length Plugged or Open
Length Size & No Holes	Perforated Nipple	Length Size & No Holes
Size Type Depth	Sealing Nipple	Size Type Depth
Length Joints	Tubing Count	Length Joints
		Tubing Size Wt Grade Thread
Tubing Subs		Tubing subs
Type Depth	Anchor Catcher	Type Depth

WALSH ENGINEERING AND PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator: J.K Edwards and Assoc Well Name: Chaco #5
 Date: Feb. 2, 1995 Report No.: 3
 Field: NIIP PC Location: SE 1 28N 13W
 Contractor: Polanco Bros. Supervisor: Paul Thompson

Work Summary: Rigged up Polanco Bros. rig. Removed frac valve and installed tubing head and BOPs. Picked up Mt. States RBP on 1-1/2" IJ tubing. Set RBP at 1135'GL. Top perf at 1165'. Circulated hole and spotted 5 gal. of sand on top of RBP. TOH. Attempted to pressure test. Established circulation through the bradenhead. Pumped water at 1.5 BPM at 200#. Picked up Mt. States packer on 1-1/2" tubing and TIH. Set packer at 1103' and tested below packer to 800#. Packer and RBP held OK. Reset packer at 972' and tested below packer - held OK. Reset packer at 843'. Circulated through bradenhead from holes below packer. Also circulated through holes in annulus. Reset packer at 781', 715', and 651' and circulated through bradenhead above packer each time. Holes in 2-7/8" from below 843' to above 651'. TOH and layed down packer. Nippled down BOP and well head. Rigged up Wireline Specialties and found first free collar was at 953'. Backed off collar at 953' and pulled out of the hole 6'. Shut down for the night. Plan to pull old 2-7/8" and replace bad joints, perforate and squeeze 2/3/95.

Daily Costs:

Anchors:	0	Tubulars: 3-1/2"	0
Rig Costs:	2,000	Wellhead Equipme	250
Rentals:	0	Subsurface Equip.:	0
Wireline:	2,808	Artificial Lift Equip.	0
Stimulation:	0	Sucker Rods:	0
Packers, BPs, e	1,990	Tanks:	0
Drilling mud:	0	Pressure Vessels:	0
Comp. Fluids:	150	Flowlines:	0
Csg Crew	0	Installation/Labor:	0
Frac Valve	0	Fittings, Valves, Ect	0
Supervision:	380	Meters, Lact, Ecl.	0
Trucking:	400	Electrical Equip.:	0
Drill collars:	0	Total Daily Cost:	7,978
		Cumulative Cost:	14,222

WALSH ENGINEERING AND PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator:	J.K Edwards and Assoc	Well Name:	Chaco #5
Date:	Jan. 31, 1995	Report No.:	2
Field:	NIIP PC	Location:	SE 1 26N 13W
Contractor:	Polanco Bros.	Supervisor:	Paul Thompson

Work Summary: Rigged up Western. Fraced existing perms from 1165' to 1192' through 2-7/8" tubing. 28 bbls into pad, established circulation through bradenhead. Shut down and released pressure. Black water was flowing from the bradenhead. Released frac crew and shut in well.

Daily Costs:

Anchors:	0	Tubulars: 3-1/2"	0
Rig Costs:	0	Wellhead Equipme	0
Rentals:	0	Subsurface Equip.:	0
Wireline:	0	Artificial Lift Equip.	0
Stimulation:	3,658	Sucker Rods:	0
Packers, BPs, e	0	Tanks:	120
Drilling mud.	0	Pressure Vessels:	0
Comp Fluids:	175	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:	4,643
		Cumulative Cost:	6,244

WALSH ENGINEERING AND PRODUCTION WORKOVER AND COMPLETION REPORT

Operator:	J.K Edwards and Assoc	Well Name:	Chaco #5
Date:	Jan. 30, 1995	Report No.:	1
Field:	NIIP PC	Location:	SE 1 26N 13W
Contractor:	Polanco Bros.	Supervisor:	Paul Thompson

Work Summary: Rigged up Polanco Bros. rig. Blew well down and nipped up BOPs. Pulled and layed down 37 jts. of 1-1/4" EUE tubing. PBTD = 1218'GL PC perms are from 1165 to 1192'GL. Installed frac valve. Plan to frac 1/31/95.

Daily Costs:			
Location:	200	Tubulars: 3-1/2"	0
Rig Costs:	800	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:	76	Meters, Lact, Ect.	0
Trucking:	0	Electrical Equip.:	0
Anchors:	450	Total Daily Cost:	1,601
		Cumulative Cost:	1,601

MERRION & BAYLESS

Chaco #5

04-26-77 --- Moved in L & B Speed Drill. Drilled 41 ft. of 7-7/8" hole and set 40 ft. of 5-1/2" surface casing. Cemented with six sax Type II.

04-27-77 --- Drilling at 400 ft.

04-28-77 --- Drilling at 800 ft.

04-29-77 --- TD at 1315 ft.

04-30-77 --- Birdwell ran Induction and Density Logs. Ran 57 joints of 2-7/8" upset 10V casing and set at 1288 ft. PBD at 1265 ft. G.L. Fleet cemented with 100 sax Class "G". Plug down at 7:30 p.m. Lost circulation with 30 sax to go. Poor circulation throughout displacement.

05-02-77 --- Blue Jet ran Cement Bond, Gamma Ray Collar logs. Found good bond. Shot with 2 PF 1165-1169, 1174-1192; swabbed in and flowing to clean up.

5-19-77 SIP 238 psig

05-03-77 --- Gauged 1029 MCF/day dry gas on 1" plate.

10-17-77 --- Pressure 230 PSIG.

11-03-77 --- SIP: 227 PSIG.

02-07-78 --- SIP: 227 PSIG at 10:30 a.m.

06-14-78 --- IP 546 MCF/day.

03-09-79 --- Rig up Western States. Kill well w/ 5 Bbls water. Ran 1207 ft. of 1-1/4" EUE tubing for siphon string. Landed @ 1206' G.R.

03-12-79 --- Swab well in and put back on line.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐

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

3. ADDRESS OF OPERATOR
P.O. Box 507, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 790' FSL & 790' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☒
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

☐
☐
☐
☐
☐
☐
☐
☐

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

Pull 1-1/4" tubing.
Plug back with sand and calseal to 1182
Sand water frack perfs. 1165-69 & 1174-82 with
3500 gal. water and 2500# sand.
Swab in.
Rerun 1-1/4" tubing.

RECEIVED

MAY 4 - 1979

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

Subsurface Safety Valve: Manu. and Type _____

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

SIGNED J. Gregory Merrion TITLE Co-Owner DATE May 1979

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL IF ANY:

5. LEASE SF 080238 A	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME Chaco	
9. WELL NO. 5	
10. FIELD OR WILDCAT NAME WAW Pictured Cliffs	
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA Section 1, T26N, R13W	
12. COUNTY OR PARISH San Juan	13. STATE N.M.
14. API NO. 30-045-2241	
15. ELEVATIONS (SHOW DF, KDB AND WD) 5979	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐

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

3. ADDRESS OF OPERATOR
P.O. Box 507, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 790 FSL and 790 FEL
AT TOP PROD. INTERVAL: same
AT TOTAL DEPTH: same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
SF 080238A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Chaco

9. WELL NO.
5

10. FIELD OR WILDCAT NAME
WAW's Pictured Cliff

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
Sec. 1, T. 26N, R. 13W

12. COUNTY OR PARISH
San Juan

13. STATE
N.M.

14. API NO.
30-045-22411

15. ELEVATIONS (SHOW DEPT. OF KDB AND WD)
5979 G.R.

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐ ☐

FRACTURE TREAT ☐ ☐

SHOOT OR ACIDIZE ☐ ☐

REPAIR WELL ☐ ☐

PULL OR ALTER CASING ☐ ☐

MULTIPLE COMPLETE ☐ ☐

CHANGE ZONES ☐ ☐

ABANDON* ☐ ☐

(other) Run Siphon String ☒

(NOTE: Report results of multiple completions or zone change on Form 9-330.)

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.)*

03-09-79 Rig up Western States. Kill well w/ 5 bbls water. Radiometer 1207 ft. of 1-1/4" EUE tubing for siphon string. 1206 ft. G.R.

03-12-79 Swab well in and put back on line.

Subsurface Safety Valve: Manu. and Type

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

SIGNED Steven J. Salas TITLE Engineer DATE Mar 23, 1979

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

OPERATOR

NO. OF COPIES RECEIVED		4
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
TRANSPORTER	OIL	
	GAS	
OPERATOR		
PRODUCTION OFFICE		

**NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS**

Form C-104
Supersedes Old C-104 and
Effective 1-1-65

I. Operator
J. Gregory Merrion and Robert L. Bayless

Address
P.O. Box 1541, Farmington, NM 87401

Reason(s) for filing (Check proper box) Other (Please explain)

New Well ☒ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☒
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name Chaco	Well No. 5	Pool Name, including Formation NIPP Picture Cliff	Kind of Lease State, Federal or Fee Federal	Lease No. SF080238
Location				
Unit Letter P	790	Feet From The South	Line and 790	Feet From The East
Line of Section 1	Township 26N	Range 13W	, NMPM, San Juan County	

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☐	Address (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company	P.O. Box 990, Farmington, NM 87401
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
	no As soon as possible

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)		Oil Well ☐	Gas Well ☒	New Well ☒	Workover ☐	Deepen ☐	Plug Back ☐	Same Restv. ☐	Diff. Restv. ☐
Date Spudded 4/26/77	Date Compl. Ready to Prod. 5/02/77	Total Depth 1315 ft.		P.B.T.D. 1265 ft.					
Elevations (DF, RKB, RT, CR, etc.) 5979 ft. G.R.	Name of Producing Formation Picture Cliff	Top Oil/Gas Pay 1165 ft.		Tubing Depth none					
Perforations 1165-69, 1174-92				Depth Casing Shoe 1288 ft.					
TUBING, CASING, AND CEMENTING RECORD									
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT					
7-7/8"	5-1/2"	40 ft.		6 sacks					
4-3/4"	2-7/8"	1288 ft.		100 sacks					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

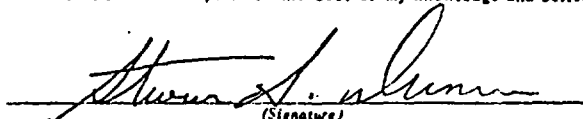
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

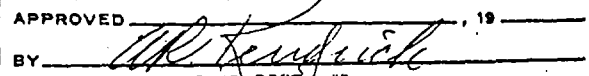
Actual Prod. Test - MCF/D 1029 MCF/day	Length of Test 1 hr.	Bbls. Condensate/MMCF 0	Gravity of Condensate
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shut-in) -----	Casing Pressure (Shut-in) 232 PSIG	Choke Size 1"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


(Signature)
Engineer
(Title)
April 21, 1978

OIL CONSERVATION COMMISSION
APR 21 1978

APPROVED _____ 19____
BY 
SUPERVISOR DIST. #3
TITLE _____

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepener well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allow able on new and recompleted wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)

Form approved.
Budget Bureau No. 43-2344.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐		5. TRASH DESIGNATION AND SERIAL NO. SF 080238A	
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVE ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESEV. ☐ Other ☐		6. IN INDIAN, ALLOTTEE OR TRIBE NAME	
3. NAME OF OPERATOR J. Gregory Merrion and Robert L. Bayless		7. UNIT AGREEMENT NAME	
4. 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 FSL and 790 FEL At top prod. interval reported below SAME At total depth same		9. WELL NO. 5	
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT N.I.T.P. Picture Cliff	
DATE ISSUED		11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA Sec. 1, T26N, R13W	
5. DATE SPUDDED 4-26-77		12. COUNTY OR PARISH San Juan	
16. DATE T.D. REACHED 4-29-77		13. STATE N.M.	
17. DATE COMPL. (Ready to prod.) 5-02-77		18. ELEVATIONS (OF, BEB, BY, GR, ETC.)* 5979 G.R.	
19. ELEV. CASINGHEAD		20. TOTAL DEPTH, MD & TVD 1315 ft.	
21. PLUG, BACK T.D., MD & TVD 1265 ft.		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY 0-TD		24. ROTARY TOOLS	
25. CABLE TOOLS		26. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 1165-92' Picture Cliff	
27. TYPE ELECTRIC AND OTHER LOGS RUN Induction, Density		28. WAS DIRECTIONAL SURVEY MADE NO	
29. WAS WELL CORRD NO			

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#	23 ft.	7-7/8"	6 sacks	
2-7/8"	6.5#	1288 ft.	4-3/4"	100 sacks	

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

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
1165-69 w/2 PF		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1174-92 w/2 PF			

33. PRODUCTION							
34. FIRST PRODUCTION		35. PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				36. WELL STATUS (Producing or shut-in)	
DATE OF TEST		HOLES TESTED		CHOKES SIZE		PROD'N. FOR TEST PERIOD	
-03-77		1.0		1"		OIL—BSL.	
FL. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BSL.	
						GAS—MCF.	
						WATER—BSL.	
						OIL GRAVITY-API (CORR.)	
						1029 MCF/day	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED Steven S. Allen TITLE Engineer DATE May 17, 1977

INSTRUCTIONS

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), bottom(s) and name(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: "Macka 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.)

FORMATION		TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS	NEAR. DEPTH	TRUE VERT. DEPTH
Picture Cliff		1165 ft.		Gas, water		372'	
						880'	
						1162'	
Kirtland Fruitland Pic. Cliff							

WELL COMPLETION OR RECOMPLETION REPORT	
NAME OF OPERATOR Gregory Herron and Robert L. Hayes	DATE OF COMPLETION 1950 FEB AND 1950 MAR

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY	
UNED STATES SUBMIT IN DUPLICATE	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRI-
(Other instructions
verse side)ATE-
in re-Form approved,
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

SF 080238A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Chaco

9. WELL NO.

5

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 1, T26N, R13W

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 WELL ☐ GAS WELL ☒ OTHER

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 FSL and 790 FEL

14. PERMIT NO.

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

5979 ft. G.L.

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

☐
☐
☐
☐
☐

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

(Other)

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 pertinent to this work.)*

04-26-77 Moved in L & B Speed Drill. Drilled 41 ft. of 7-7/8" hole and set 40 ft. of 5-1/2" surface casing. Cemented with 6 sax Type II.

04-27-77 Drilling at 400 ft.

04-28-77 Drilling at 800 ft.

04-29-77 TD at 1315 ft.

04-30-77 Birdwell ran Induction and Density Logs. Ran 57 joints of 2-7/8" upset 10V casing and set at 1288 ft. PBTD at 1265 ft. G.L. Fleet cemented with 100 sax Class "G". Plug down at 7:30 p.m. Lost circulation with 30 sax to go. Poor circulation throughout displacement.

05-02-77 Blue Jet ran Cement Bond, Gamma Ray Collar logs. Found good bond. Shot with 2 PF 1165-1169, 1174-1192; swabbed in and flowing to clean up.

05-03-77 Gauged 1029 MCF/day dry gas on 1" plate.

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

SIGNED

Steven L. Sullivan

TITLE

Engineer

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

DATE

MAY 4 1977

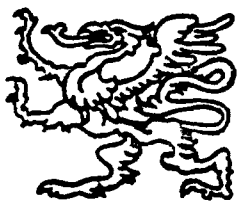
U. S. GEOLOGICAL SURVEY

DATE

Misc.
Corresp.

1

Miscellaneous Correspondence



PENDRAGON ENERGY PARTNERS, INC.

1600 Broadway, Suite 1950 • Denver, CO 80202-4919 • (303) 832-1142 Fax (303) 837-0408

MEMORANDUM

TO: Paul Thompson

FROM: Al Nicol

SUBJ: Frac. Design For The Chaco #5 Well

DATE: 3/14/95

This memo from Roland Blauer addresses Pendragon's optimum design for this well. Roland is an owner of Pendragon and has his own consulting firm which specializes in frac design, among other things. He would like to talk with you about it at your convenience (303-830-9377), and he will also need to know whom to talk with at Western when we get to setting up the job.

I have fax'd this to Keith Edwards, also. We will look forward to your comments. Thanks.

May 17, 1995

To: Al and Jim
From: Roland
Re: Vacation doings

Following is a daily log/ stream of consciousness of things that occurred while you were playing.

1. Cherokee Operating Misner Waterflood;

I called Cherokee and talked to Mickey Canaday, 918-583-0273, to discuss the Misner waterflood. He is an engineer who is responsible for most of their waterfloods. My question was to justify using an initial gas saturation of 27% for the "base" case and 37% for the "lower" case. The initial gas saturation difference accounts for the difference between 600,000 barrels and 950,000 barrels remaining. He had no justification and believed as I do that the 600 MBO is very doable, anything above that is serendipity. I passed this to Jim and noted that 600 MBO appears to be marginal for us assuming the 15% carry Cherokee wants. I exited.

2. Adon Road #2

Keith Yonst called and advised the recent pump replacement had worked for about a week and then production decreased to 20 BOPD and 30 BWPD. Further, he could get pressure built up to 300 psi which would bleed back to 160 psi and then hold. He shot fluid level and found it at 2000 feet. The pump has double valves and should not be leaking. He suspects a combination of sand over the pump and/or a tubing leak. He requested permission to get a work-over rig and pull the pump and check the tubing. I authorized this.

3. Chaco Frac jobs

I finally received copies of the Chaco 4 and 5 frac reports. Copies attached. I have submitted these for formal evaluation, but, can not expect to have them processed for 2 to 3 weeks. Thus, preliminary comments.

Chaco #4. The Nolte plot shows no fracture growth during the first 10 minutes. Essentially, the fluid is being accepted by the formation as fast as we were pumping and probably indicates we were pumping into a pre-existing fracture. Notice, however, the well showed a clear break down pressure indicating the pre-existing fracture had closed near the wellbore and was not contributing productive permeability to the wellbore. Bottom hole pressures immediately began to rise with the introduction of sand, confirming no fracture growth. The original treatment was probably a cross linked polymer and created a huge fracture. The rising pressures indicate the fracture is filling near the perforations. Notice the pressure increases in lock step with the sand concentration indicating near well

bore restriction and reduced perforation exposure to the fracture, the fracture is filling with proppant. This is actually better than I had hoped. Examination of the after-frac shut-in shows no indication of in-situ fracture permeability and indicates the matrix permeability is about 4 md. The hump in the curve is caused by CO₂ heating and expansion. This well will not be as strong as the Chaco #5.

Chaco #5. The Nolte plot shows fracture extension, horizontal and not vertical, for the first 15 minutes. Again, we were probably in a pre-existing fracture, but, one with out extensive fracture height. Also note the clear break down again indicating near well bore restriction to the existing fracture and fracture closure. At 15 minutes, the Nolte plot changes slope in response to the increased sand concentrations. However, the slope of this curve is much lower than the Chaco #4 and indicates a tip screen-out. Very happy about this. This well should give us a view of exactly what a newly fractured well is capable of producing with a reasonable fracture treatment.

4. Chaco Production and fracture clean-up.

Talked to Keith May 17, 1995 about frac clean up. His attitude was he does not keep track of any after frac data and had none to offer. Welsh had flowed and swabbed the two wells for two days and then shut them in waiting on pipe line. Estimated production rates were 100 MCFD for each well. I instructed him to go back and either flare or vent the wells, they are not yet cleaned up and need to have continuous flow back for several month to prevent permanent damage. He said he had never done this, I suggested that now is a good time to start. I also requested he have a detailed report of activities after the fractures prepared including well head pressures and estimated fluids production. Daily records of well head pressure and fluid production should be made. Sales line and meters will take approximately 2 weeks. We need to ride Keith on this. No, I am not pleased with the field activity, Keith seems to not know or care about the importance of requesting the field people work alert. As a result, they seem to become careless. I cannot do anything but request.

**Production
Data**

1

WELL DELIVERABILITY TEST REPORT FOR 19 80

POOL NAME WAW Fr./Pic. Cliffs	POOL SLOPE n = .85	FORMATION Fruitland/Pictured Cliffs	COUNTY San Juan
----------------------------------	-----------------------	--	--------------------

COMPANY Merrion & Bayless			WELL NAME AND NUMBER Chaco #5		
UNIT LETTER P	SECTION 1	TOWNSHIP 26N	RANGE 13W	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 1288	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 1207
GAS PAY ZONE FROM 1165 TO 1192		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .650	GRAVITY LENGTH 785
DATE OF FLOW TEST FROM 6/6/80 TO 6/14/80			DATE SHUT-IN PRESSURE MEASURED 6/21/80		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWI) 102	(b) Flowing Tubing Pressure (DWI) 51	(c) Flowing Meter Pressure (DWI) 50	(d) Flow Chart Static Reading 49	(e) Meter Error (Item c - Item d) 1	(f) Friction Loss (a - c) or (b - c) 1	(g) Average Meter Pressure (Integr.) 47
(h) Corrected Meter Pressure (g + e) 48	(i) Avg. Wellhead Press. $P_i = (h + f)$ 49	(j) Shut-in Casing Pressure (DWI) 121	(k) Shut-in Tubing Pressure (DWI) 109	(l) $P_c =$ Higher value of (j) or (k) 121	(m) Del. Pressure $P_d = 80 \text{ } \gamma P_c$ 97	(n) Separator or Dehydrator Pr. (DWI) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 20	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.02	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.01	Corrected Volume Q = 20 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-n})$.055	$(P_c Q_m)^2 (1000)$ 242	$R^2 = (1 - e^{-n}) (P_c Q_m)^2 (1000)$.13	P_t^2 2401	$P_w^2 = P_t^2 + R^2$ 2414	$P_w = \sqrt{P_w^2}$ 49
------------------------	-----------------------------	--	-----------------	-------------------------------	----------------------------

DELIVERABILITY CALCULATION

$Q = \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 20$	$\left[\frac{5232}{12227} \right]^n = .4279$	$.4860$	$= 10 \text{ MCF/D}$
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REMARKS:

SUMMARY

Item b	48	Point
P_c	121	Point
Q	20	MCF/D
P_w	49	Point
P_d	97	Point
D	10	MCF/D

Company	Merrion & Bayless
By	John Anderson
Title	Field Foreman
Witnessed By	Bob Harris
Company	Fizz's Pumping Service

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 79

Form CI22-A
 Revised 1-1-66

WELL NAME WAW Fruitland PC	POOL SLOPE n = 0.85	FORMATION Fruitland Pictured Cliffs	COUNTY San Juan
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COMPANY Merrion & Bayless			WELL NAME AND NUMBER Chaco #5		
UNIT LETTER P	SECTION 1	TOWNSHIP 26N	RANGE 13W	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 1288	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PLRF. - FEET 1207
GAS PAY ZONE FROM 1165 TO 1192		WELL PRODUCTION THRU CASING TUBING XX		GAS GRAVITY 0.634	GRAVITY LENGTH 765
DATE OF FLOW TEST FROM 04-20-79 TO 04-28-79			DATE SHUT-IN PRESSURE MEASURED 05-05-79		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 42	(b) Flowing Tubing Pressure (DWt) 42	(c) Flowing Meter Pressure (DWt) 34	(d) Flow Chart Static Reading 32	(e) Meter Error (Item c - Item d) 2 ✓	(f) Friction Loss (a - c) or (b - c) 8 ✓	(g) Average Meter Pressure (Integr.) 32
(h) Corrected Meter Pressure (g + e) 34 ✓	(i) Avg. Wellhead Press. $P_i = (h + f)$ 42 ✓	(j) Shut-in Casing Pressure (DWt) 137	(k) Shut-in Tubing Pressure (DWt) 142	(l) P_c = higher value of (j) or (k) 142 ✓	(m) Del. Pressure $P_d = \frac{80}{114} \times P_c$ 114 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 148	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0625 ✓	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0308 ✓	Corrected Volume Q = 153 ✓ MCF/D
---	--	---	--

WORKING PRESSURE CALCULATION

$(1 - e^{-b})$.0556	$(F_c Q_m)^2 (1000)$ 14189 ✓	$R^2 = (1 - e^{-b}) (F_c Q_m)^2 (1000)$ 789 ✓	P_i^2 1764 ✓	$P_w^2 = P_i^2 + R^2$ 2530 2553	$P_w = \sqrt{P_w^2}$ 50.3 51.50
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DELIVERABILITY CALCULATION

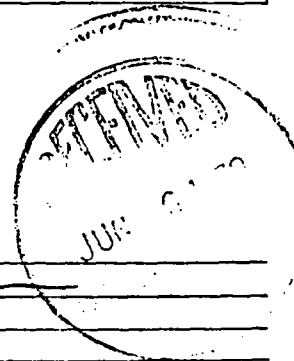
$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 153	$\left[\frac{7168}{17563} \right]^0 \left(\frac{.4065}{.4081} \right)^0 = \frac{.4653}{.4669}$	71 ✓ MCF/D
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REMARKS:

SUMMARY

Item b 34 Psia
 P_c 142 Psia
 Q 153 MCF/D
 P_w 51.50 Psia
 P_d 114 Psia
 D 71 MCF/D

Company Merrion & Bayless
 By Steve J. Smith
 Title Engineer
 Witnessed By Mike Ellsaesser
 Company Fizz's Pumping Service



MEXICO OIL CONSERVATION COM) N

WELL DELIVERABILITY TEST REPORT FOR 19 78

Form C122-A
Revised 1-1-66

POOL NAME WAW	POOL SLOPE n= 0.85	FORMATION Picture Cliff	COUNTY San Juan
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COMPANY Merrion & Bayless			WELL NAME AND NUMBER Chaco #5		
UNIT LETTER P	SECTION 1	TOWNSHIP 26N	RANGE 13W	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 1288	TUBING O.D. - INCHES None	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 1165 TO 1192		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY 0.64	GRAVITY X LENGTH 754
DATE OF FLOW TEST FROM 8-5-78 TO 8-13-78			DATE SHUT-IN PRESSURE MEASURED 8-20-78		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 80	(b) Flowing Tubing Pressure (DWt) None	(c) Flowing Meter Pressure (DWt) 78	(d) Flow Chart Static Reading 78	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a - c) or (b - c) 2	(g) Average Meter Pressure (Integr.) 76
(h) Corrected Meter Pressure (g + e) 76	(i) Avg. Wellhead Press. $P_t = (h + f)$ 78	(j) Shut-in Casing Pressure (DWt) 201	(k) Shut-in Tubing Pressure (DWt) None	(l) P_c = higher value of (j) or (k) 201	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$ 161	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 215	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1	Corrected Volume Q = 215 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-x})$.0533	$(F_c Q_m)^2 (1000)$ 1424	$R^2 = (1 - e^{-x}) (F_c Q_m)^2 (1000)$ 76	P_t^2 6084	$P_w^2 = P_t^2 + R^2$ 6160	$P_w = \sqrt{P_w^2}$ 78
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{\frac{1}{n}} = \frac{215}{\left[\frac{14480}{34317} \right]^{\frac{1}{0.85}} \left(\frac{.4219}{.4802} \right)^{\frac{1}{0.85}}} = 103 \text{ MCF/D}$
--

REMARKS:

SUMMARY

Item h 76 Psia
 P_c 201 Psia
 Q 215 MCF/D
 P_w 78 Psia
 P_d 161 Psia
 D 103 MCF/D

Company Merrion & Bayless
 By [Signature]
 Title Engineer
 Witnessed By Merle Ellsaeser
 Company Fizz's Pumping Service

W MEXICO OIL CONSERVATION COMMISSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☒ Special					Test Date 5-19-77	
Company Merrion & Bayless				Connection New Well		
Pool NIIP				Formation Pictured Cliffs		Unit
Completion Date May 2, 1977		Total Depth 1315'		Plug Back TD 1265'		Elevation 5979' GR
Farm or Lease Name Chaco		Well No. 5				
Csq. Size 2.875	Wt. 6.5 lb.	d 2.441	Set At 1288'	Perforations: From 1165' To 1192'		Unit Sec. Twp. R1e. SE/SE 1 26 13
Thq. Size none	Wt.	d	Set At	Perforations: From To		
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas - Tubingless Completion				Packer Set At none		County San Juan
Producing Thru Casing		Reservoir Temp. °F #		Mean Annual Temp. °F		State New Mexico
Baro. Press. - P _g 12.0						
L	H	G _g .60	% CO ₂	% N ₂	% H ₂ S	Prover 2"
Meter Run		Taps				

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI									238		SIP
1.	2" x 3/32"			232		60°			232		2 hr.
2.	2" x 1/8"			226		62°			226		2 hr.
3.	2" x 3/16"			216		60°			216		2 hr.
4.	2" x 5/16"			166		55°			167		2 hr.
5.	2" x 5/16"			161		58°					12 hr.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor - F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	0.1410		244	1.000	1.291	1.021	45
2	0.2648		238	.9981	1.291	1.021	83
3	0.6082		228	1.000	1.291	1.021	183
4	1.672		178	1.005	1.291	1.016	392
5	1.672		173	1.008	1.291	1.016	382

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 250		P _c ² 62500	
NO.	P _r ²	P _w	P _w ²
1		244	59536
2		238	56644
3		228	51984
4		178	31684
5		173	29929

(1) $\frac{P_c^2}{P_r^2 - P_w^2} =$ _____

AOF = Q $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n =$ _____

(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n =$ _____

Absolute Open Flow 710	Mcf @ 15.025	Angle of Slope @ 42.5	Slope, n .92
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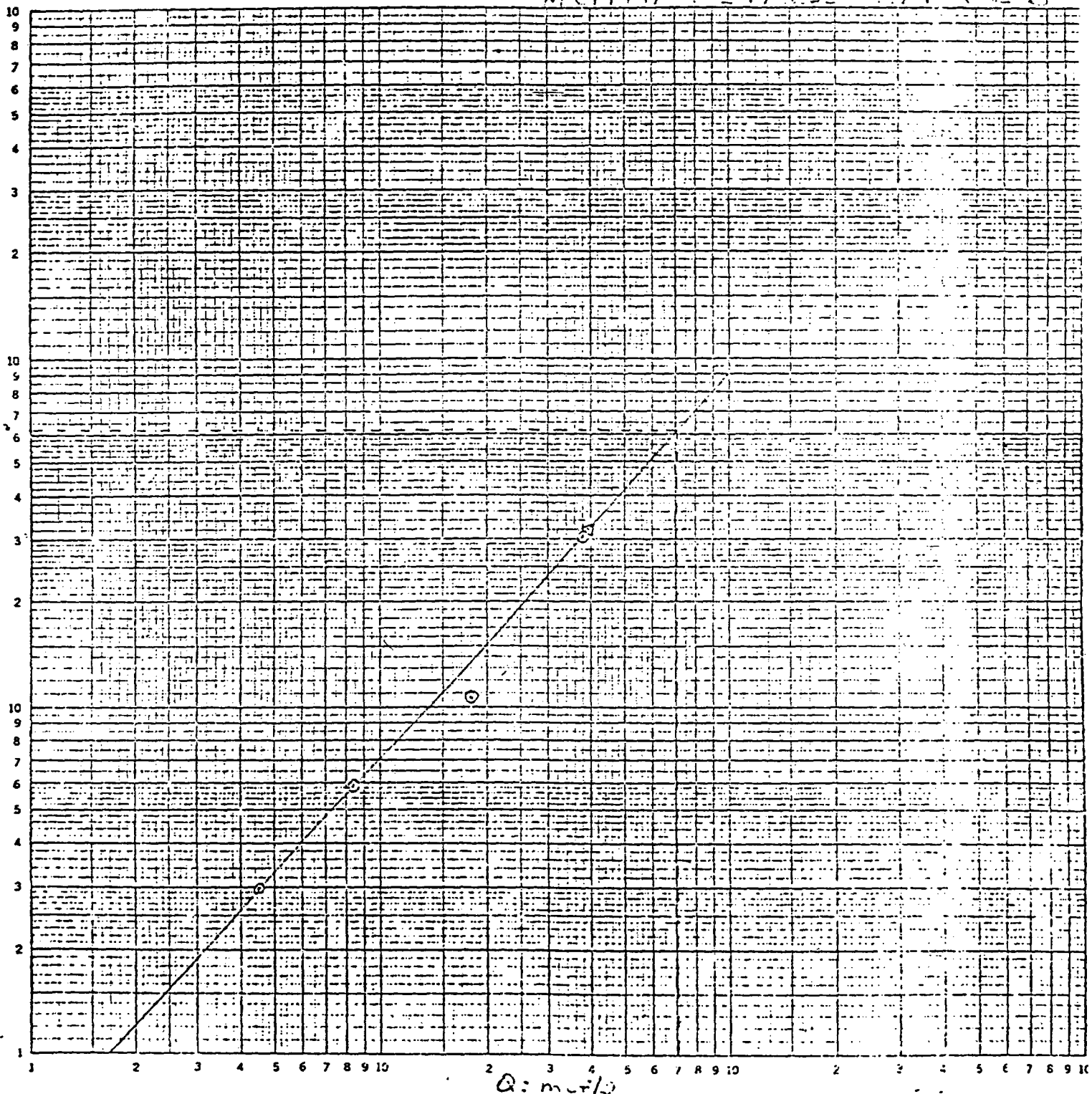
Remarks: Well produced dry gas throughout test.

Approved By Commission:	Conducted By: Fred S. Hamrick	Calculated By: Fred S. Hamrick	Checked By: Steven S. Dunn, Engine
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Merriam & Fay Loss Co. = 5

57400

LOG-ARITHMIC CYC
MADE IN U.S.A.



○ 2 hr flow point
 Δ 12 hr extended flow point

N = .92
 A = 7.7 mcf/d

SUGGESTED FIELD DATA SHEET (Not Required To File)									
Type Test ☐ Initial ☐ Annual ☒ Special Test Date 5-19-77								Lease No. or Serial No.	
Company Merrion & Bayless Connection New Well								Allottee	
Field Reservoir Location								Unit	
Completion Date Total Depth Plug Back TD Elevation								Farm or Lease Name	
Csg. Size Wt. d Set At Perforations: From To								Well No. Chaco #5	
Tbg. Size Wt. d Set At Perforations: From To								Sec. Twp.-Blk. Rge.-Sur.	
Type Completion (Describe) Packer Set At								County or Parish San Juan	
Producing Thru Reservoir Temp. F Mean Annual Temp. F Baro. Press. - P _a								State New Mexico	
L H G _g % CO ₂ % N ₂ % H ₂ S								Prover 2" Meter Run Taps	

DATE	ELAP. TIME	Wellhead Working Pressure			METER OR PROVER				REMARKS
Time of Reading	Hrs.	Tbg. Psig.	Csg. Psig.	Temp. F	Pressure Psig.	Diff.	Temp. F	Orifice	(Include liquid production data: Type-A, P.I., Gravity-Amount)
7:00			238					3/32"	SIP - Start Flow #1
7:15			232		232				
7:30			232		232		56°		
7:45			232		232		58°		
8:00			232		232		58°		
8:15			232		232		58°		
8:30			232		232		59°		
8:45			232		232		60°		
9:00	2hr.		232		232		60°		End Flow #1 - No Liquid
11:00			237					1/8"	2 hr SIP - Start Flow #2
11:15			226		226		60°		
11:30			226		226		61°		
11:45			226		226		61°		
12:00 Noon			226		226		61°		
12:15			226		226		61°		
12:30			226		226		61°		
12:45			226		226		62°		
1:00	2hr.		226		226		62°		End Flow #2 - No Liquid
3:00			236					3/16"	3 hr SIP - Start Flow #3
3:15			216		216		58°		
3:30			216		216		57°		
3:45			216		216				
4:00			216		216		58°		
4:15			216		216				
4:30			216		216				
4:45			216		216				
5:00	2hr.		216		216		60°		End Flow #3 - No Liquid
7:00			236					5/16"	2 hr. SIP - Start Flow #4
7:15			172		172		55°		
7:30			170		170		55°		
7:45			168		168		56°		
8:00			167		167		56°		
8:15			167		167		55°		

SUGGESTED FIELD DATA SHEET (Not Required To File)											
Type Test ☐ Initial ☐ Annual ☒ Special								Test Date		Lease No. or Serial No.	
								5-19-77			
Company				Connection						Allottee	
Merrion & Bayless				New Well							
Field		Reservoir		Location						Unit	
Completion Date		Total Depth		Plug Back TD		Elevation				Farm or Lease Name	
Csg. Size		Wt.		d		Set At		Perforations: From		To	
										Well No.	
										Chaco #5	
Tbg. Size		Wt.		d		Set At		Perforations: From		To	
										Sec.	
										Twp.-Blk.	
										Rq.-Sur.	
Type Completion (Describe)								Packer Set At		County or Parish	
										San Juan	
Producing Thru		Reservoir Temp. F		Mean Annual Temp. F		Baro. Press. - P _a				State	
										New Mexico	
L		H		G _g		% CO ₂		% N ₂		% H ₂ S	
				.60						Prover	
										Meter Run.	
										Taps	
										2"	

Page 2 of 2 Date by Fred S. Hamrick

Well Engineering & Production Well Report

Meter # 97-877-01

RECEIVED

Date: 1/98
 Oper: PENDRAGON ENERGY PARTNERS
 Well: Chaco #5

Coeff: 13.56
 Range: 100
 Spring: 100
 Plate: 1.500
 Hrs On:
 Hrs Off:

FEB - 6 1998
 PENDRAGON ENERGY
 PARTNERS, INC.

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	51					311	
2	51					309	
3	52					309	
4	51					307	
5	50			7		306	
6	54					306	
7	52	54	83	9		306	
8	53					305	
9	53			-8-		302	
10	51					303	
11	51					305	
12	51					305	
13	51					305	
14	58			7		298	
15	53					301	
16	51					302	
17	51					302	
18	51					303	
19	52	54	83	7		302	
20	64					262	
21	48	52	83	9		304	
22	51					302	
23	53			8		305	
24	53					303	
25	52					301	
26	51			7		298	
27	53			-5-		297	
28	54	57	83	7		292	
29	56					290	
30	55					289	
31	55					287	

Total MCFD: 9317

Additional Remarks:

Well Report

Meter # 97-877-01

Date: 12/97
 Oper: PENDRAGON ENERGY PARTNERS
 Well: Chaco #5

Coeff: 13.56
 Range: 100
 Spring: 100
 Plate: 1.500
 Hrs On: _____
 Hrs Off: _____

RECEIVED

JAN - 9 1998

**PENDRAGON ENERGY
PARTNERS, INC.**

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	48					320	
2	50					318	
3	51	54	84	9		260	Blow drip
4	50					309	Light heater
5	46					330	
6	50					318	
7	48					320	
8	47					322	
9	54					315	
10	52			9		302	
11	50					314	
12	49	50	84	11		315	
13	49					314	
14	48					314	
15	53					314	
16	53					316	
17	53			9		314	
18	55					310	
19	53					311	
20	55					310	
21	52					311	
22	65	78	88	5		281	
23	51					313	
24	51			9		314	
25	58					305	
26	60					305	
27	50					313	
28	47					314	
29	53			9		312	
30	53					312	
31	52	53	83	8		311	

Total MCFD: 9637

Additional Remarks:

Well Engineering & Production Well Report

Meter # 97-877-01

Date: 11/97
 Oper: PENDRAGON ENERGY PARTNERS
 Well: Chaco #5

Coeff: 13.56
 Range: 100
 Spring: 100
 Plate: 1.500
 Hrs On: _____
 Hrs Off: _____

RECEIVED

11-11-1997

PENDRAGON ENERGY
PARTNERS, INC.

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	47					363	
2	47					361	
3	60	74	86	7		330	
4	45					364	
5	47			10		362	
6	46					362	
7	48					360	
8	48					359	
9	50					354	
10	53	55	84	8		351	
11	57					344	
12	48			10		353	
13	48					352	
14	50					350	
15	50					350	
16	49					353	
17	52			9		350	
18	48					351	
19	48			9		351	
20	47					351	
21	47					352	
22	47					352	
23	50					348	
24	51	53	83	9		344	Blow drip
25	48					346	
26	48					347	
27	47					347	
28	48					347	
29	49					345	
30	63					302	
31						0	

Total MCFD: 10501

Additional Remarks:

Well Engineering & Production Well Report

Meter # 97-877-01

RECEIVED
NOV - 5 1997
PENDRAGON ENERGY
PARTNERS, INC.

Date: 10/97
Oper: PENDRAGON ENERGY PARTNERS
Well: Chaco #5

Coeff: 13.56
Range: 100
Spring: 100
Plate: 1.500
Hrs On: _____
Hrs Off: _____

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	55					325	
2	50			7		311	
3	51					274	
4	48					293	
5	50					291	
6	46					292	
7	56	71	86	7		229	
8	55					245	
9	57	58	87	8		256	
10	53					354	
11	53					275	
12	52					244	
13	50					318	
14	50					315	
15	49					321	
16	49	52	75	9		305	
17	47					294	
18	51					279	
19	46					286	
20	45			10		274	
21	54					249	
22	56	58	86	8		0	Dump stuck open,
23	55					1	adjust
24	61					0	
25	50					357	
26	48					357	
27	47					359	
28	42			15		362	
29	48					361	
30	65	61	84	9		322	
31	50			10		380	

51.3

Total MCFD:

8529

Additional Remarks:

Well Engineering & Production Well Report

Date: 9/97
 Oper: Pendragon Energy Partners, Inc.
 Well: Chaco #5

Coeff: 13.56
 Range: 100
 Spring: 100
 Plate: 1.500
 Hrs On: _____
 Hrs Off: _____

RECEIVED

OCT - 8 1997

**PENDRAGON ENERGY
PARTNERS, INC.**

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	46					370	
2	48					371	
3	52			9		368	
4	50	60	94	11		366	
5	51					365	
6	49					366	
7	50					341	
8	50			12		359	
9	53					339	
10	94			2		395	
11	63					277	
12	54					310	
13	52					309	
14	51					350	
15	54			—		348	
16	58	60	87	6		255	Blow drip
17	55					256	
18	57			10		355	
19	56					355	
20	56					350	
21	57					335	
22	50	53	86	9		315	
23	52					289	
24	50			11		303	
25	54					369	
26	52					355	
27	54					324	
28	52					285	
29	55					281	
30	53	54	86	9		299	
31						0	

52.9

Total MCFD:

9960

Additional Remarks:

Waish Engineering & Production Well Report

RECEIVED

Date: 8/97
Oper: Pendragon Energy Partners, Inc.
Well: Chaco #5

Coeff: 13.56
Range: 100
Spring: 100
Plate: 1.500
Hrs On: _____
Hrs Off: _____

SEP - 8 1997
PENDRAGON ENERG
PARTNERS, INC.

<u>Pressure</u>				<u>Meter</u>			Remarks
Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	
1	89					397	
2	81					400	
3	74					391	
4	72			8		375	
5	74					365	
6	70			7		365	
7	66					363	
8	67			11		360	
9	53					373	
10	53					373	
11	52					375	
12	50	61	98	10		375	
13	57					374	
14	58			9		368	Blow drip
15	61					359	
16	60					358	
17	59					358	
18	56			11		363	
19	64					353	
20	62	67	97	9		264	Blow drip - Adjust dum
21	60					346	
22	54	63	98	11		358	
23	63					348	
24	55					360	
25	53					363	
26	56					359	
27	55	64	97	11		353	
28	52			9		353	
29	59					360	
30	51					364	
31	51					365	

60.9

Total MCFD: 11238

Additional Remarks:

Well Engineering & Production Well Report

Date: 7/97
 Oper: Pendragon Energy Partners, Inc.
 Well: Chaco #5

Coeff: 13.56
 Range: 100
 Spring: 100
 Plate: 1.500
 Hrs On: _____
 Hrs Off: _____

RECEIVED

AUG - 8 1997

**PENDRAGON ENERGY
PARTNERS, INC**

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	51					343	
2	70			10		337	
3	51					313	
4	49					360	
5	48					366	
6	49					365	
7	48	58	92	12		364	
8	50					365	
9	52			8		362	
10	48					363	
11	49					362	
12	49					362	
13	48					362	
14	62			7		347	
15	63			10		346	
16	64	72	97	7		345	
17	57					346	
18	62			11		342	
19	48					323	
20	58					336	
21	49					359	
22	54	84	95	8		353	
23	48			10		359	
24						43	close well in
25						0	
26						0	
27						0	
28						0	
29						0	
30	85	137	137			338	open well
31	84					438	

Total MCFD: 8899

Additional Remarks:

Well Engineering & Production Well Report

Date: 6/97

Oper: Pendragon Energy Partners, Inc.

Well: Chaco #5

Coeff: 13.56

Range: 100

Spring: 100

Plate: 1.500

Hrs On: _____

Hrs Off: _____

Pressure				Meter			Remarks
Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	
1	52					373	
2	48			12		376	
3	48					374	
4	49			9		394	Blow drip
5	47	57	93	12		366	
6	47					369	
7	46					367	
8	45					368	
9	50			11		359	run settlement test
10	47			10		363	
11	48			11		366	
12	47	56	93			363	Blow drip - adjust dum
13	47			11		364	
14	46					364	
15	46					365	
16	65			9		361	Blow drip
17	56					353	
18	44	54	94	15		364	
19	51					360	
20	71					308	
21	46					368	
22	41					375	
23	42					378	
24	45	57	92	12		374	
25	47			14		372	
26	47					371	
27	47					369	
28	47					370	
29	46					370	
30	48			12		371	Blow drip
31						0	
Total MCFD:						10995	

Additional Remarks:

Water Engineering & Production Well Report

Date: 5/97
 Oper: Pendragon Energy Partners, Inc.
 Well: Chaco #5

Coeff: 13.56
 Range: 100
 Spring: 100
 Plate: 1.500
 Hrs On: _____
 Hrs Off: _____

RECEIVED

JUN - 9 1997

PENDRAGON ENERGY
PARTNERS, INC.

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	52					338	
2	52			25		343	Exchange dump valve
3	48					376	
4	51					374	
5	50					374	
6	51					372	
7	76	84	99	7		360	Adjust dump - blow dri
8	47					363	
9	46					369	
10	45					373	
11	47					372	
12	48			12		371	
13	48					371	
14	52			7		371	
15	49					370	
16	48					371	
17	44					376	
18	43					380	
19	45					379	
20	45			12		380	
21	45	59	97			376	blow drip
22	48					377	
23	47					378	
24	43					379	
25	38					388	
26	37					391	
27	42	37	88	13		386	
28	49			14		375	blow drip
29	47			11		375	
30	47			11		379	
31	46					379	

Total MCFD:

11566

49.2 gph

Additional Remarks:

Well Engineering & Production Well Report

Date: 4/97

Oper: Pendragon Energy Partners, Inc.

Well: Chaco #5

Coeff: 13.56

Range: 100

Spring: 100

Plate: 1.500

Hrs On:

Hrs Off:

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	47					376	
2	48	57	90	10		376	
3	46			11		370	Adjust dump
4	43			11		377	
5	47					378	
6	47					377	
7	47			-11		377	
8	50			9		374	
9	48	59	96	10		372	
10	53					369	
11	51			10		373	
12	48					373	
13	48					373	
14	49			11		373	
15	48			11		366	
16	52			10		366	
17	49					372	
18	49	60	97	10		371	
19	50					370	
20	49					371	
21	50			10		370	
22	50					370	
23	51			10		372	
24	50					373	
25	48					374	
26	53					369	
27	55					368	
28	49			12		374	
29	47	58	97	11		374	
30	49			9		379	
31						0	

Total MCFD: 11177

Additional Remarks:

Well Report

Date: 3/97
 Oper: Pendragon Energy Partners, Inc.
 Well: Chaco #5

Coeff: 13.56
 Range: 100
 Spring: 100
 Plate: 1.500
 Hrs On: _____
 Hrs Off: _____

RECEIVED

APR - 3 1997

PENDRAGON ENERGY
PARTNERS, INC.

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	49					377	
2	48					377	
3	49					376	
4	48					376	
5	49			9		376	
6	47					376	
7	51			11		373	
8	52					370	
9	52					370	
10	52			9		370	
11	50					371	
12	43			10		378	
13	43					380	
14	45					380	
15	45	56	96			381	
16	46					380	
17	45			10		379	
18	46					371	
19	46			9		375	
20	47					378	
21	47			13		378	
22	43					382	
23	39					387	
24	67			7		362	
25	51					378	
26	47	57	94	11		378	
27	49			12		376	
28	49					377	
29	48					376	
30	49					374	
31	46			13		374	

Total MCFD: 11656

Additional Remarks:

Water Engineering & Production Well Report

Date: 2/97
 Oper: Pendragon Energy Partners,
 Well: Chaco #5

Coeff: 13.56
 Range: 100
 Spring: 100
 Plate: 1.500
 Hrs On: _____
 Hrs Off: _____

RECEIVED

MAR - 6 1997

PENDRAGON ENERGY
PARTNERS, INC.

Pressure				Meter			Remarks
Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	
1	40					375	
2	39					386	
3	40	42	88	12		389	
4	37			14		389	
5	75			5		369	
6	41			12		347	
7	39					377	
8	39					380	
9	38					335	
10	38			15		371	
11	39	41	87	13		321	
12	45			11		347	
13	34					301	
14	33			18		370	Adjust dump
15	38					394	
16	46					388	
17	42			13		391	
18	45					387	
19	49			14		383	
20	45	49	89	12		383	
21	49			12		380	
22	46					381	
23	40					388	
24	40			13		390	
25	45					377	
26	52	52	90	10		371	
27	49					378	
28	48			10		378	
29						0	
30						0	
31						0	
Total MCFD:						10426	

Additional Remarks:

Wash Engineering & Production Well Report

Date: 1/97

Oper: Pendragon Energy Partners, Inc.

Well: Chaco #5

Coeff: 13.56

Range: 100

Spring: 100

Plate: 1.500

Hrs On:

Hrs Off:

RECEIVED

FEB 10 1997

PENDRAGON ENERGY
PARTNERS, INC.

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	58					365	
2	48					370	
3	49					370	
4	49					370	
5	48					371	
6	48					371	
7	67		111			409	
8	53					363	
9	47					369	
10	65					348	
11	47			9		391	
12	50					364	
13	38					298	
14	38			14		405	
15	37					364	
16	36					330	
17	39		97			398	
18	37					331	
19	39					342	
20	37					372	
21	39			14		357	
22	43			14		380	
23	42			11		379	
24	40					379	
25	42					380	
26	42					378	
27	51			6		373	
28	39			12		380	
29	38					381	
30	42			12		356	
31	43		91	13		399	
Total MCFD:						11443	

Additional Remarks:

Walco Engineering & Production Well Report

RECEIVED

JAN - 9 1997

PENDRAGON ENERGY
PARTNERS, INC.

Date: 12/96
Oper: Pendragon Energy Partners, Inc.
Well: Chaco #5

Coeff: 13.56
Range: 100
Spring: 100
Plate: 1.500
Hrs On: _____
Hrs Off: _____

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	36					298	
2	33					285	
3	34					349	Dump hung open
4	36					392	
5	37		97			407	Blow drip
6	36					390	
7	36					390	
8	37					388	
9	40					384	
10	40		99			362	
11	40					380	
12	40					381	
13	40					384	
14	39					385	
15	37					388	
16	38					386	
17	41					307	
18	110					98	
19	122					97	Pipeline freeze on EI
20	37					402	Paso pipeline. Blew
21	40					397	lines down - Called EI
22	43					393	Paso
23	46					391	
24	45					362	Blow location drip
25	44					381	
26	45					379	
27	44					331	Repair dump - Blow
28	45					378	drip
29	45					379	
30	47					375	
31	47		98			351	

Total MCFD:

10970

Additional Remarks:

Well Engineering & Production Well Report

RECEIVED
DEC - 9 1996
PENDRAGON ENERGY
PARTNERS, INC.

Date: 11/96
Oper: Pendragon Energy Partners, Inc.
Well: Chaco #5

Coeff: 13.56
Range: 100
Spring: 100
Plate: 1.500
Hrs On: _____
Hrs Off: _____

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	34					389	
2	34					390	
3	33					392	
4	34					391	
5	35	37	97			421	
6	41					385	
7	35					388	
8	34					389	
9	34					389	
10	33					391	
11	37					379	
12	40					380	
13	36					384	
14	50					382	
15	37					384	
16	37					385	
17	38					383	
18	88					382	
19	51					370	
20	41					380	
21	42					377	
22	44					376	
23	38					380	
24	38					382	
25	25					340	
26	45		98			381	
27	35					321	
28	37					285	
29	37					276	
30	37					280	Dump hung open
31						0	
Total MCFD:						11132	

Additional Remarks:

Wals Engineering & Production Well Report

RECEIVED

NOV - 4 1996

PENDRAGON ENERGY
PARTNERS, INC.

Date: 10/96
Oper: Pendragon Energy Partners, Inc.
Well: Chaco #5

Coeff: 13.56
Range: 100
Spring: 100
Plate: 1.500
Hrs On: _____
Hrs Off: _____

Pressure				Meter			Remarks
Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	
1	32					428	
2	34					414	
3	51					388	
4	41					391	
5	49					382	
6	50					376	
7	45	51	102			381	
8	51					383	
9	47					388	
10	32					390	H2O - 12 BPD
11	33					368	
12	34					364	
13	43					350	
14	41					367	
15	39					383	
16	32	45	97			148	SI @ 4 pm - EPNG
17						0	
18	37	143	143			295	
19	35					432	
20	33					403	
21	33					396	
22	31					413	
23	37					391	
24	36					390	
25	38					388	
26	40					386	
27	40					386	
28	37					387	
29	50					430	21 BPD
30	41		110			396	
31	47					391	
Total MCFD:						11385	

Additional Remarks:

Well Engineering & Production Well Report

RECEIVED

OCT - 7 1996

PENDRAGON ENERGY
PARTNERS, INC.

Date:

9/96

Oper:

Pendragon Energy Partners, Inc.

Well:

Chaco #5

Coeff:

13.56

Range:

100

Spring:

100

Plate:

1.500

Hrs On:

Hrs Off:

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	41					375	
2	32					383	
3	34					382	
4	40					377	
5	56					361	
6	33					378	
7	28		101			381	Shut well in
8						0	
9						0	
10						0	
11						0	
12						0	
13	96		140			279	Turn well on
14	50					612	
15	40					537	
16	45					468	
17	41					471	
18	53					395	Set EFI Comp
19	31					456	
20	30					443	
21	28					436	
22	28	16	85	12	48	449	
23						428	
24	33		87	7	50	406	Open casing valve
25	33					439	
26	33	21	37	10	43	440	
27	51	21	21	12	53	454	
28	24					435	
29	35					430	
30	35	21	21	12		432	
31						0	

Total MCFD:

10647

Additional Remarks:

9/24 - Open casing valve slightly - increased suction to 12#

Increased gas volumns from 406 mcf to 489 mcf - Casing fell from 87# to 48#

10/1 - Remove compressor

Wals Engineering & Production Well Report

RECEIVED
SEP 12 1996
PENDRAGON ENERGY
PARTNERS, INC.

Date: 8/96
Oper: Pendragon Energy Partners, Inc.
Well: Chaco #5

Coeff: 13.56
Range: 100
Spring: 100
Plate: 1.500
Hrs On: _____
Hrs Off: _____

Pressure				Meter			
Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	41					320	
2	46					364	
3	38					369	
4	32					375	
5	57					357	
6	87		118			339	
7	90					320	
8	54					343	
9	34					364	
10	43					361	
11	32					369	
12	38					368	
13	84		114			336	
14	37					381	
15	72					347	
16	51					364	
17	47					368	
18	46					371	
19	63					360	
20	45					370	
21	44					373	
22	43		105			415	
23	118					194	
24	62					385	
25	42					398	
26	44					394	
27	46		108			372	
28	43					381	
29	43					386	
30	45					397	
31	45					394	
Total MCFD:						11235	

Additional Remarks:

Well Report

Date: 7/96

Oper: Pendragon Energy Partners, Inc.

Well: Chaco #5

Coeff: 13.56

Range: 100

Spring: 100

Plate: 1.500

Hrs On:

Hrs Off:

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	45					371	
2	52					364	
3	60					355	
4	42					373	
5	42					375	
6	43					375	
7	45					374	
8	48					371	
9	39		100			339	
10	66					355	
11	53					367	
12	35					372	
13	60					355	
14	80					310	
15	46					361	
16	35					371	
17	34		101			382	
18	38					372	
19	35					375	
20	42					370	
21	32					379	
22	52					363	
23	58		106			339	
24	51					363	
25	66					346	
26	65					348	
27	37					367	
28	31					378	
29	37					375	
30	38					372	
31	44		104			369	

Total MCFD: 11286

Additional Remarks:

Well Report

Date: 6/96

Oper: Pendragon Energy Partners, Inc.

Well: Chaco #5

Coeff: 13.56

Range: 100

Spring: 100

Plate: 1.500

Hrs On:

Hrs Off:

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1	47					331	
2	47					336	
3	50					336	
4	66					324	
5	47					337	
6	58					290	
7	50					333	
8	48					338	
9	48					339	
10	56					333	
11	92					300	
12	90		100			327	
13	88					296	
14	68					318	
15	66					324	
16	73					325	
17	74					324	
18	49					343	
19	44					345	
20	50		97			337	
21	45					344	
22	45					346	
23	56					338	
24	51					341	
25	78					287	
26	48		97			353	
27	47					338	
28	50					352	
29	47					366	
30	50					364	
31						0	

Total MCFD: 9965

Additional Remarks:

Well Report

Date: 5/96

Oper: Pendragon Energy Partners, Inc.

Well: Chaco #5

Coeff: 13.56

Range: 100

Spring: 100

Plate: 1.500

Hrs On:

Hrs Off:

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1				3.4	7.6	350	
2				3.2	7.9	343	
3				3.2	7.9	343	
4	57					243	
5	62					334	
6	61					340	
7	57					346	
8	60					347	
9	62	61	103			374	
10	58					347	
11	58					347	
12	70					339	
13	74					333	
14	74					329	
15	65					298	3713 MSCF TOTAL
16	108					236	
17	78					333.6	
18	46					340	
19	46					340	
20	44					345	
21	67					327	
22	87		111			279	
23	87					317	
24	74					324	
25	55					332	
26	49					339	
27	54					337	
28	76					298	
29	64					290	
30	64					290	
31	64					290	

Total MCFD: 10031

Additional Remarks:

EL PASO INSTALLED ELECTRIC FLOW METER

Well Engineering & Production Well Report

Date: <u>4/6/8</u>	Coeff: <u>13.56</u>
Operator: <u>Pendragon Energy Partners, Inc.</u>	Range: <u>100</u>
Well: <u>Chaco #5</u>	Spring: <u>100</u>
	Plate: <u>1.5</u>
	Hrs On: <u> </u>
	Hrs Off: <u> </u>

Pressure				Meter			Remarks
Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	
1				3.4	7.4	341	
2				3.4	7.4	341	
3				3.4	7.4	341	
4				3.4	7.4	341	
5				3.4	7.4	341	
6				3.4	7.4	341	
7				3.4	7.4	341	
8				3.4	7.4	341	
9				3.4	7.5	346	
10				3.4	7.5	346	
11				3.2	7.5	325	
12				3.0	8.0	325	
13				3.4	7.4	341	
14	43		104	3.4	7.4	341	
15				3.4	7.4	341	
16				3.1	7.5	315	
17				3.1	7.7	324	
18				3.3	7.7	313	
19				2.6	8.4	296	
20				2.1	9.6	273	
21				2.1	9.9	282	
22				2.2	9.8	292	
23	69		115	2.3	9.0	281	
24				2.3	9.0	281	
25				3.2	7.8	338	
26				3.2	7.8	335	
27				3.3	7.6	340	
28				3.3	7.6	340	
29			105	3.3	7.6	340	
30						0	
Total MCFD:						9775	

Additional Remarks:

Well Report

Date 3/96

Coeff. 13.56

Oper. Pendragon Energy Partners, Inc.

Range: 100

Spring: 100

Well: Chase #5

Plate: 1.5

Hrs On:

Hrs Off:

Pressure

Meter

Date	Line	Tubing	Casing	Diff. *	STAT	MCFO	Remarks
1				2.2	9.0	268	
2				3.1	7.8	326	
3				3.1	7.5	315	
4				3.1	7.5	315	
5				3.1	7.5	315	
6		46	94	3.1	7.6	319	
7				2.8	8.1	308	
8				3.2	7.6	330	
9				3.2	7.6	330	
10				3.3	7.5	336	
11				3.4	7.4	341	
12				3.3	7.4	331	
13		45	96	3.3	7.4	331	
14				3.3	7.4	331	
15				3.3	7.4	331	
16				3.3	7.4	331	
17				3.3	7.4	331	
18				3.3	7.4	331	
19				3.3	7.4	331	
20				3.3	7.4	331	
21	52		105	2.6	8.0	282	
22				2.0	9.8	266	
23				2.0	9.5	258	
24				3.1	7.7	324	
25				3.4	7.4	341	
26				3.3	7.6	340	
27				3.4	7.4	341	
28				3.4	7.4	341	
29	43			3.4	7.4	341	
30				3.4	7.4	341	
31				3.4	7.4	341	

Total MCFO

10002

Additional Remarks:

Wal Engineering & Production Well Report

Date: 2/96

Coeff: 13.56

Oper: Pendragon Energy Partners, Inc.

Range: 100

Spring: 100

Well: Chaco #5

Plate: 1.5

Hrs On:

Hrs Off:

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1				3.5	7.2	342	
2				3.5	7.2	342	
3				3.5	7.2	342	
4				3.5	7.2	342	
5				3.5	7.2	342	
6				3.5	7.2	342	
7				3.5	7.2	342	
8	43	43	111	3.2	7.4	321	
9				3.5	7.0	332	
10				3.5	7.0	332	
11				3.5	7.0	332	
12				3.5	7.0	332	
13				3.5	7.0	332	
14	37	37	109	3.5	7.0	332	
15				3.5	7.0	332	
16				3.5	7.0	332	
17				3.5	7.1	337	
18				3.5	7.1	337	
19				3.0	7.3	297	
20				3.5	7.1	337	
21				1.8	8.5	207	
22	78		111	1.5	9.5	193	
23				2.2	10.0	298	
24				3.3	7.5	336	
25				3.2	7.5	325	
26				3.2	7.5	325	
27				3.2	7.6	330	
28				3.2	7.5	325	
29	44		103	3.2	7.5	325	
30						0	
31						0	

Total MCFD: 9345

Additional Remarks:

Water Engineering & Production Well Report

Date: 1/96

Oper: J. K. Edwards Associates Inc.

Well: Chaco #5

Coeff: 13.56

Range: 100

Spring: 100

Plate: 1.5

Hrs On:

Hrs Off:

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1				3.5	7.0	332	
2				3.5	7.0	332	
3				3.5	7.0	332	
4				3.5	7.0	332	
5				3.5	7.0	332	
6				3.5	7.0	332	
7				3.5	7.2	342	
8				3.5	7.2	342	
9				3.4	7.3	337	
10	41		100	3.4	7.3	337	BLOW LOCATION
11				3.4	7.3	337	DRIP
12				3.4	7.3	337	
13				3.4	7.3	337	
14				3.5	7.2	342	
15				3.5	7.2	342	
16	40		98	3.5	7.2	342	
17				3.5	7.2	342	
18				3.5	7.2	342	
19				3.5	7.2	342	
20				3.5	7.0	332	
21				3.5	7.0	332	
22				3.5	7.0	332	
23				3.5	7.2	342	
24			103	3.5	7.3	346	
25				3.2	7.8	338	
26				3.4	7.1	327	
27				3.2	8.2	356	
28				3.5	6.8	323	
29				3.5	6.8	323	
30				3.5	7.1	337	
31			98	3.5	7.0	332	

Total MCFD: 10431

Additional Remarks:

Well Report

Date: 11/95
 Oper: J. K. Edwards Associates Inc.
 Well: Chaco #5

Coeff: 13.56
 Range: 100
 Spring: 100
 Plate: 1.5
 Hrs On: _____
 Hrs Off: _____

Pressure

Meter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1				3.5	7.7	365	
2				3.5	7.6	361	
3				3.5	7.6	361	
4				3.0	8.3	338	
5				3.0	8.0	325	
6			102	3.5	7.5	356	LIGHT CAT HEATER
7	47			3.4	7.7	355	
8				3.4	7.7	355	
9				3.4	7.7	355	
10				3.4	7.5	346	
11				3.4	7.5	346	
12				3.5	7.4	351	
13				3.4	7.4	341	
14	46		100	3.4	7.6	350	
15				3.4	7.6	350	
16				3.4	7.6	349	
17				3.4	7.5	346	
18				3.4	7.5	346	
19				3.4	7.5	346	
20				3.1	7.7	324	
21	43		102	3.5	7.4	351	
22				3.5	7.5	356	
23				3.5	7.5	356	
24				3.4	7.7	355	
25				3.5	7.8	370	
26				3.5	7.5	360	
27				3.5	7.5	356	
28				3.5	7.3	346	
29	44	0	100	3.4	7.5	346	
30				3.1	8.0	336	
31						0	

Total-MCFD: 10498

Additional Remarks:

Walsh Engineering & Production

Well Report

Date: 10/95Coeff: 13.56Oper: J. K. Edwards Associates Inc.Range: 100Spring: 100Well: Chaco #5Plate: 1 500Hrs On: Hrs Off: PressureMeter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1				2.5	9.5	322	
2				2.5	9.5	322	
3				2.2	9.2	274	
69				2.2	9.0	268	EL PASO SHUT IN
5				0.0	0.0	0	
6				0.0	0.0	0	
7				0.0	0.0	0	
8				0.0	0.0	0	
9				0.0	0.0	0	
10				0.0	0.0	0	
11		156	156	4.5	9.2	561	TURNEO WELL ON
12				4.5	9.4	574	
13				4.5	8.0	488	
14				3.6	7.8	381	
15				2.5	9.5	322	
16				3.0	8.0	325	
17				3.1	7.8	328	
18				3.1	7.7	324	
19	41		107	3.4	7.3	337	
20				3.4	7.3	337	
21				3.4	7.3	337	
22				3.2	7.3	317	
23				3.1	7.3	307	
24				3.0	7.4	301	
25	59	59	104	2.5	6.4	285	
26				2.9	7.9	311	
27				2.9	7.9	311	
28				3.1	7.7	324	
29				3.1	7.7	324	
30				3.1	7.7	324	
31	53	53	103	2.8	6.4	319	

Total MCFD: 8620

Additional Remarks:

Walsh Engineering & Production Well Report

Date: 9/95Coeff. 13.56Operator: J. K. EDWARDS ASSOCIATES INC.Range: 100Spring: 100Plate: 1.5Well No: Chaco #5Hrs On: Hrs Off: PressureMeter

Date	Line	Tubing	Casing	Diff.	Stat.	MCFD	Remarks
1				3.5	7.6	361	
2				3.4	7.8	360	
3				3.5	7.8	370	
4				3.5	7.6	361	
5				3.2	8.3	360	
6	44		123	3.6	7.5	366	
7				3.4	7.6	350	
8				3	8.1	330	
9				3.2	8.3	360	
10				3.2	8.2	356	
11				3.2	8.2	356	
12				3	8	325	
13	50	50	127	3.2	7.9	343	
14				3.2	7.8	338	
15				3.2	7.3	338	
16				3.4	7.7	355	
17				3.4	7.7	355	
18				3.5	7.6	361	
19	44	44	103	3.5	7.5	356	
20				3.5	7.4	351	
21				3.4	7.6	350	
22				3.5	7.3	346	
23				3.4	7.5	346	
24				3.2	7.7	334	
25				3.5	7.4	351	
26				3.2	7.3	317	
27	57	57	102	3	8.3	338	Need new pen
28				3	8.3	338	
29				3	8.3	338	
30				3	8.3	338	
31						0	
Total MCFD:						10447	

Additional Remarks:

WALSH ENGINEERING & PRODUCTION

WELL REPORT

DATE: AUGUST 1995

OPERATOR: J. K. EDWARDS ASSOCIATES

WELL NAME: Chaco #5

CO-EFF: 13.56
 RANGE: 100
 SPRING: 100
 PLATE: 1.500
 HRS ON OFF

DATE	PRESSURE			METER			REMARKS
	LINE	TUBING	CASING	DIFF.	STAT.	MCF	
1				3.9	7.4	391	
2				3.8	7.8	402	
3				3.9	7.8	412	
4				3.6	8.4	410	
5				3.5	8.5	403	
6				3.4	8.4	387	
7				3.5	8.5	403	
8			107	3.2	8.5	369	
9				3.4	8.5	391	
10				3.5	8.4	399	
11				3.5	8.2	389	
12				3.4	8.1	373	
13				4.4	7.3	435	
14				4.4	7.3	435	
15	47	47	107	4.0	7.7	418	
16				4.2	7.3	415	
17				4.2	7.3	415	
18				3.3	8.0	358	
19				3.6	8.4	410	
20				3.8	7.3	376	
21				3.2	8.3	360	
22				3.0	8.6	350	
23	53		111	3.5	8.1	384	
24				3.1	8.2	345	
25				2.8	9.0	342	
26				3.1	7.4	311	
27				3.0	8.1	329	
28				2.8	8.1	346	
29				3.0	8.0	325	
30	54		106	3.2	8.1	351	
31				3.2	8.1	351	

11735

WALSH ENGINEERING & PRODUCTION

WELL REPORT

DATE: JULY 1995

OPERATOR: J. K. EDWARDS ASSOCAITES

WELL NAME: Chaco #5

CO-EFF: 13.56
 RANGE: 100
 SPRING: 100
 PLATE: 1.500
 HRS ON OFF

DATE	PRESSURE			METER			REMARKS
	LINE	TUBING	CASING	DIFF.	STAT.	MCF	
1				4.5	6.7	409	
2				4.5	6.7	409	
3				4.5	6.7	409	
4				4.5	6.7	409	
5				4.5	6.7	409	
6	33	33	105	4.5	6.7	409	
7				4.4	6.8	406	
8				4.2	7.1	404	
9				4.2	7.1	404	
10				4.8	6.6	423	
11				4.8	6.6	423	
12				4.7	6.9	440	
13				4.7	6.9	440	
14				4.3	7.1	414	
15				4.3	7.1	414	
16				4.3	7.0	408	
17				4.3	7.1	408	
18				4.4	6.8	406	
19				4.4	6.9	412	
20	36	36	106	4.4	6.9	412	
21				4.4	6.9	412	
22				4.4	6.9	412	
23				4.3	6.9	402	
24				4.2	7.0	399	
25			105	4.2	7.0	399	
26				4.2	7.0	399	
27				4.2	7.0	399	
28				3.9	7.5	418	
29				5.8	7.9	407	
30				3.8	7.9	407	
31	43	43	105	4.0	7.4	401	

12,723

WALSH ENGINEERING & PRODUCTION

WELL REPORT

DATE: JUNE 1995

OPERATOR: J. K. EDWARDS ASSOCIATES

WELL NAME: Chaco #5

CO-EFF: 5.95 13.54
 RANGE: 100
 SPRING: 100
 PLATE: 2.200 1.500
 HRS ON OFF

DATE	PRESSURE			METER			REMARKS
	LINE	TUBING	CASING	DIFF.	STAT.	MCF	
1				6.0	8.0	286	
2				8.5	7.0	354	
3				7.6	7.7	348	
4				7.6	7.7	348	
5	44	45	122	7.8	7.5	348	
6				7.8	7.5	348	
7				8.0	7.5	357	
8				8.0	7.6	362	
9				8.0	6.9	328	
10				9.0	6.9	369	
11				9.0	6.9	369	
12				9.2	6.9	378	
13	37	37	114	9.2	6.9	378	
14				9.2	6.9	378	
15				9.2	7.0	375	
16				9.0	7.2	386	
17				9.2	6.9	378	
18				9.2	6.9	378	
19				9.5	6.8	384	
20	36	36	110	9.7	6.6	392	requested plate change
21				7.5	7.5	356	1.000 to 1.250
22				3.5	4.7	329	
23				3.5	4.7	329	
24				4.0	7.3	396	
25				4.2	6.8	397	
26				4.5	6.8	413	
27	60	60	110	2.8	8.5	373	
28				2.8	8.5	373	
29				2.8	8.5	373	
30				4.0	7.2	390	
31							

10,815

Separator Serial #1498

WALSH ENGINEERING & PRODUCTION

WELL REPORT

DATE: MAY 1995

OPERATOR: J. K. EDWARDS ASSOCAITES

WELL NAME: Chaco #5

CO-EFF: 5.95
 RANGE: 100
 SPRING: 100
 PLATE: 1.000
 HRS ON OFF

DATE	PRESSURE			METER			REMARKS
	LINE	TUBING	CASING	DIFF.	STAT.	MCF	
1							WELL SHUT IN WAITING
2							on frac
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15		149	149				Well off
16							
17		149	149				Well off
18							
19		151	151				Tie in blow line
20							
21							
22		151	151				Vent tubing to pit
23							
24		37	137				Same 10 BW/d
25							same
26							same
27							same
28							same
29							same
30			133	7.5	7.7	343	turn well on to sales
31	44	44	129	7.3	7.5	325	10 BW/d

TOTAL 668

5/19 El Paso installed test meter

5/22 Open tubing to pit - 5 min to produce H2O

5/23 36# tubing 131# Casing - Est. 90 MCF/d 20 Bbls H2O per day - will try to hold a 35# to 45# back pressure on well.

5/24 gas at 80 to 90 MCF/d

5/26 install separator on location Serial #1498

WALSH ENGINEERING & PRODUCTION

WELL REPORT

DATE: APRIL 1995

OPERATOR: J. K. EDWARDS ASSOCIATES

WELL NAME: Chaco #5

CO-EFF: _____

RANGE: _____

SPRING: _____

PLATE: _____

HRS ON OFF

DATE	PRESSURE			METER		REMARKS
	LINE	TUBING	CASING	DIFF.	STAT. MCF	
1						WELL SHUT IN
2						waiting on frac
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

WALSH ENGINEERING & PRODUCTION

WELL REPORT

DATE: MARCH 1995

OPERATOR: J. K. EDWARDS ASSOCIATES INC.

WELL NAME: Chaco #5

CO-EFT: -

RANGE:

SPRING:

PLATE:

HRS ON OFF

PRESSURE

METER

DATE	LINE	TUBING	CASING	DIFF.	STAT.	MCF	REMARKS
1							Well shut in waiting to
2							fraced
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							

Lease Number NMSF080238A
Agreement Number _____
Field Name _____
Unit Name _____
Participating Area Name _____
County SAN JUAN State NM
Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report
Federal ☒
or
Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
period 0 9 9 7 (mmyy) (See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
0452241000S1 CHACO	7NWNW	28N	12W	PGW	30		10531		
0452241100S1 CHACO	1SESE	28N	13W	PGW	30		10022		
0452359300S1 CHACO LTD	1NWNW	28N	13W	PGW 654					
0452513400S1 CHACO LTD	1NESW	28N	13W	PGW	30		36		

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
On hand, Start of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Produced	XXXXXXXXXXXX	20589	XXXXXXXXXXXX
Sold	XXXXXXXXXXXX	20589	XXXXXXXXXXXX
Spilled or Lost	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Used on or for Benefit of Lease	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Injected	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Gas Transferred	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Plant Number/Name	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Surface Pits	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Other	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Identify	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
On hand, End of Month	XXXXXXXXXXXX	1050	XXXXXXXXXXXX
API Gravity/BTU Content	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX

COMMENTS

Robert Bomar 915-684-4407

CONTACT NAME

Bomar Consulting Service
415 W. Wall St., Suite 1000

PHONE NUMBER ()

EXT.

ADDRESS

Midland, Texas 79701-4436

AUTHORIZING SIGNATURE

Robert Bomar

DATE 11/13/97 (mmddyy)

AUTHORIZING NAME (type or print)

Lease Number MMNM12028
 Agreement Number _____
 Field Name _____
 Unit Name _____
 Participating Area Name _____
 County SAN JUAN State NM
 Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
 or
 Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
 period 0 7 9 7 (mmyy) (See reverse of form for instructions)

API Well Number Operator Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
0 2188400S1 CHACO PLANT	21SWNW	26N	12W	PGW	31		3843		
0452807300S1 WSAROUND	21NENE	26N	12W	PGW	31		1458		

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
On hand, Start of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Produced	5300	5300	XXXXXXXXXXXX
Sold	5300	XXXXXXXXXXXX	XXXXXXXXXXXX
Spilled or Lost	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Used on or for Benefit of Lease	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Injected	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Gas Transferred	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Plant Number/Name	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Surface Pits	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Other	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Identify	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
On hand, End of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
API Gravity/BTU Content	1006	XXXXXXXXXXXX	XXXXXXXXXXXX

COMMENTS

Robert Bomar 915-684-4407
 CONTACT NAME Bomar Consulting Service
110 N. Marienfeld, Suite 450
 ADDRESS Midland, Texas 79701-4412
 PHONE NUMBER () EXT.

AUTHORIZING SIGNATURE _____ DATE 09 14 97 (mmdyy)

AUTHORIZING NAME (type or print) _____ PAGE 1 OF **

Lease Number NMSF080238A
Agreement Number _____
Field Name _____
Unit Name _____
Participating Area Name _____
County SAN JUAN State NM
Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
or
Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
period 0 8 9 7 (mmyy) (See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
52241000S1 CHACO	7NWNW	28N	12W	PGW	31		12154		
52241100S1 CHACO	1SESE	28N	13W	PGW	31		11245		
452359300S1 CHACO LTD	1NWNW	28N	13W	PGW GSI					
52513400S1 CHACO LTD	1NESW	28N	13W	PGW GSI					

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
On hand, Start of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Produced	23399	23399	XXXXXXXXXXXX
Spilled or Lost	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Used on or for Benefit of Lease	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Injected	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Gas Transferred	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Plant Number/Name	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Surface Pits	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Other	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Identify	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
On hand, End of Month	1039	1039	XXXXXXXXXXXX
Gravity/BTU Content	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX

COMMENTS

Robert Bomar 915-684-4407
Bomar Consulting Service
110 N. Marienfeld, Suite 450
Midland, Texas 79701-4412

PHONE NUMBER () EXT.

AUTHORIZING SIGNATURE

DATE 101597 (mmddyy)

AUTHORIZING NAME (type or print)

PAGE 1 OF

Lease Number NMSF080238A
 Agreement Number _____
 Field Name _____
 Unit Name _____
 Participating Area Name _____
 County SAN JUAN State NM
 Operator PENDRAGON ENERGY PARTNERS, INC K0835



Amended Report

Federal ☒

or

Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report

period 0 7 9 7 (mmyy)

(See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
Operator Well Number									
452241000S1	7NWNW	26N	12W	PGW	31		8879		
CHACO									
00452241100S1	1SESE	26N	13W	PGW	31		8859		
CHACO									
452359300S1	1NWNW	26N	13W	PGW	31		65		
CHACO LTD									
00452513400S1	1NESW	26N	13W	PGW	31		58		
CHACO LTD									

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
On hand, Start of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Produced	1786	1786	XXXXXXXXXXXX
Sold	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Willed or Lost	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Used on or for Benefit of Lease	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
lected	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
is Transferred	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Plant Number/Name	XXXXXXXXXXXX	XXXXXXXXXXXX	
Surface Pits	XXXXXXXXXXXX	XXXXXXXXXXXX	
her			
Identify			
On hand, End of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Gravity/BTU Content	1034	XXXXXXXXXXXX	XXXXXXXXXXXX

COMMENTS

CONTACT NAME Robert Bomar 915-684-4407
Bomar Consulting Service
 ADDRESS 110 N. Marienfeld, Suite 450
Midland, Texas 79701-4412
 AUTHORIZING SIGNATURE _____

VE NUMBER () _____ EXT. _____

DATE 091497 (mmddyy)

AUTHORIZING NAME (type or print) _____

PAGE 1 OF ..

Lease Number NMSF080238A
 Agreement Number _____
 Field Name _____
 Unit Name _____
 Participating Area Name _____
 County SAN JUAN State NM
 Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
 or Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
 period 0 8 9 7 (mmyy) (See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
Operator Well Number									
100452241000S1	7NNW	28N	12W	PGW	30		10265		
4 CHACO									
300452241100S1	1SESE	28N	13W	PGW	30		10950		
CHACO									
00452359300S1	1NWNE	28N	13W	PGW	30		62		
2J CHACO LTD									
00452513400S1	1NESW	28N	13W	PGW	30		73		
J CHACO LTD									

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
On hand, Start of Month		XXXXXXXXXXXXX	XXXXXXXXXXXXX
• Produced		21350	
Sold		21350	XXXXXXXXXXXXX
Spilled or Lost		XXXXXXXXXXXXX	XXXXXXXXXXXXX
• Flared or Vented	XXXXXXXXXXXXX		XXXXXXXXXXXXX
• Used on or for Benefit of Lease			XXXXXXXXXXXXX
Injected			
• Gas Transferred	XXXXXXXXXXXXX		XXXXXXXXXXXXX
Plant Number/Name			
Surface Pits	XXXXXXXXXXXXX	XXXXXXXXXXXXX	
Other			
Identify			
On hand, End of Month		XXXXXXXXXXXXX	XXXXXXXXXXXXX
API Gravity/BTU Content		1034	XXXXXXXXXXXXX

COMMENTS

Robert Bomar 915-684-4407
 CONTACT NAME Bomar Consulting Service
 ADDRESS 110 N. Marienfeld, Suite 450
 Midland, Texas 79701-4412

AUTHORIZING SIGNATURE Robert Bomar DATE 081497 (mmddyy)

AUTHORIZING NAME (type or print)

PAGE 1 OF

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PENDRAGON ENERGY
PARTNERS, INC.

Lease Number NMSF080238A
Agreement Number _____
Field Name _____
Unit Name _____
Participating Area Name _____
County SAN JUAN State NM
Operator PENDRAGON ENERGY PARTNERS, INC K0835
☐ Amended Report Federal ☒
or Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report period 0 5 9 7 (mmyy) (See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
452241000S1 CHACO	7NNW	26N	12W	PGW	31		11197		
452241100S1 CHACO	1SESE	26N	13W	PGW	31		11561		
452359300S1 CHACO LTD	1NWN	26N	13W	PGW	31		115		
452513400S1 CHACO LTD	1NESW	26N	13W	PGW	31		118		

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
On hand, Start of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Produced	22991	22991	XXXXXXXXXXXX
old	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
pilled or Lost	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Used on or for Benefit of Lease	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
jected	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Gas Transferred	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Plant Number/Name	XXXXXXXXXXXX	XXXXXXXXXXXX	
Surface Pits	XXXXXXXXXXXX	XXXXXXXXXXXX	
Other			
Identify			
On hand, End of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
API Gravity/BTU Content	1034	XXXXXXXXXXXX	XXXXXXXXXXXX

COMMENTS _____

CONTACT NAME _____ PHONE NUMBER () _____ EXT. _____

ADDRESS _____

AUTHORIZING SIGNATURE _____ DATE _____ (mmddyy)

AUTHORIZING NAME (type or print) _____ PAGE 1 OF **

Lease Number NMSF080238A
Agreement Number _____
Field Name _____
Unit Name _____
Participating Area Name _____
County SAN JUAN State NM
Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
or
Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report period 0 4 9 7 (mmyy) (See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
Operator Well Number									
300452241000S1	7NNW	28N	12W	PGW	30		10867		
4 CHACO									
000452241100S1	1SESE	28N	13W	PGW	30		11168		
CHACO									
300452359300S1	1NWN	28N	13W	PGW	30		101		
2J CHACO LTD									
000452513400S1	1NESW	28N	13W	PGW	30		120		
1J CHACO LTD									

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
• On hand, Start of Month	_____	XXXXXXXXXXXX	XXXXXXXXXXXX
- Produced	_____	22356	_____
Sold	_____	22356	XXXXXXXXXXXX
• Spilled or Lost	_____	XXXXXXXXXXXX	XXXXXXXXXXXX
• Flared or Vented	XXXXXXXXXXXX	_____	XXXXXXXXXXXX
Used on or for Benefit of Lease	_____	_____	XXXXXXXXXXXX
Injected	_____	_____	_____
• Gas Transferred	XXXXXXXXXXXX	_____	XXXXXXXXXXXX
Plant Number/Name _____	_____	_____	_____
Surface Pits	XXXXXXXXXXXX	XXXXXXXXXXXX	_____
• Other	_____	_____	_____
Identify _____	_____	_____	_____
On hand, End of Month	_____	XXXXXXXXXXXX	XXXXXXXXXXXX
• API Gravity/BTU Content	_____	1047	XXXXXXXXXXXX

COMMENTS _____

Robert Bomar 915-684-4407
CONTACT NAME Bomar Consulting Service PHONE NUMBER () EXT.
ADDRESS 110 N. Marienfeld, Suite 450
Midland, Texas 79701-4412

AUTHORIZING SIGNATURE _____ DATE _____ (mmddyy)

AUTHORIZING NAME (type or print) _____ PAGE 1 OF **

Lease Number MMNM12028
 Agreement Number _____
 Field Name _____
 Unit Name _____
 Participating Area Name _____
 County SAN JUAN State NM
 Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
 or
 Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
 period 0 3 9 7 (mmyy) (See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
0045218840051 CHACO PLANT	21SWNW	26N	12W	PGW	31		6104		
30045280730051 COWSARDUND	21NENE	26N	12W	PGW	31		2201		

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
On hand, Start of Month	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
• Produced	_____	8305	_____
• Sold	_____	8305	XXXXXXXXXXXXX
• Spilled or Lost	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
• Flared or Vented	XXXXXXXXXXXXX	_____	XXXXXXXXXXXXX
• Used on or for Benefit of Lease	_____	_____	XXXXXXXXXXXXX
• Injected	XXXXXXXXXXXXX	_____	XXXXXXXXXXXXX
• Gas Transferred	XXXXXXXXXXXXX	_____	XXXXXXXXXXXXX
Plant Number/Name _____	XXXXXXXXXXXXX	XXXXXXXXXXXXX	_____
• Surface Pits	_____	_____	_____
• Other	_____	_____	_____
Identify _____	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
• On hand, End of Month	_____	1006	XXXXXXXXXXXXX
• PI Gravity/BTU Content	_____	_____	XXXXXXXXXXXXX

COMMENTS _____

CONTACT NAME Robert Bomar 915-684-4407
Bomar Consulting Service
 ADDRESS 110 N. Marienfeld, Suite 450
Midland, Texas 79701-4412

PHONE NUMBER () _____ EXT. _____

AUTHORIZING SIGNATURE _____ DATE _____ (mmddyy)

AUTHORIZING NAME (type or print) _____

PAGE 1 OF **

Lease Number NMSF080238A
Agreement Number _____
Field Name _____
Unit Name _____
Participating Area Name _____
County SAN JUAN State NM
Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
or
Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
period 0 3 9 7 (mmyy) (See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
Operator Well Number									
100452241000S1	7NWNW	26N	12W	PGW	31		11658		
CHACO									
300452241100S1	1SESE	26N	13W	PGW	31		11234		
CHACO									
00452359300S1	1NWNW	26N	13W	PGW	31		90		
CHACO LTD									
300452513400S1	1NESW	26N	13W	PGW	31		3		
CHACO LTD									

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
On hand, Start of Month	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
Produced	_____	22985	_____
Sold	_____	22985	XXXXXXXXXXXXX
Spilled or Lost	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXXX	_____	XXXXXXXXXXXXX
Used on or for Benefit of Lease	_____	_____	XXXXXXXXXXXXX
Injected	_____	_____	_____
Gas Transferred	XXXXXXXXXXXXX	_____	XXXXXXXXXXXXX
Plant Number/Name	_____	_____	_____
Surface Pits	XXXXXXXXXXXXX	XXXXXXXXXXXXX	_____
Other	_____	_____	_____
Identify	_____	_____	_____
On hand, End of Month	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
API Gravity/BTU Content	_____	1047	XXXXXXXXXXXXX

COMMENTS _____

CONTACT NAME Robert Bomar 915-684-4407
Bomar Consulting Service
ADDRESS 110 N. Marienfeld, Suite 450
Midland, Texas 79701-4412

AUTHORIZING SIGNATURE _____ DATE _____ (mmddyy)

AUTHORIZING NAME (type or print) _____ PAGE 1 OF **

Lease Number NMSF080238A
 Agreement Number _____
 Field Name _____
 Unit Name _____
 Participating Area Name _____
 County SAN JUAN State NM
 Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
 or Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report period 0 2 9 7 (mmyy) (See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
Operator Well Number									
0452241000S1 CHACO	7NNW	26N	12W	PGW	28		10457		
300452241100S1 CHACO	1SESE	26N	13W	PGW	28		10426		
0452359300S1 CHACO LTD	1NWN	26N	13W	PGW	28		87		
300452513400S1 CHACO LTD	1NESW	26N	13W	PGW GSE					

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
On hand, Start of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Produced	20970	20970	XXXXXXXXXXXX
Sold	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Spilled or Lost	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Used on or for Benefit of Lease	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Rejected	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Gas Transferred	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Plant Number/Name	XXXXXXXXXXXX	XXXXXXXXXXXX	
Surface Pits			
Other			
Identify			
On hand, End of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
PI Gravity/BTU Content	1048	XXXXXXXXXXXX	XXXXXXXXXXXX

COMMENTS

Robert Bomar 915-684-4407
 Bomar Consulting Service
 110 N. Marienfeld, Suite 450
 Midland, Texas 79701-4412

CONTACT NAME
 ADDRESS

PHONE NUMBER () EXT.

AUTHORIZING SIGNATURE _____ DATE _____ (mmddyy)

AUTHORIZING NAME (type or print) _____ PAGE 1 OF **

Lease Number NMSF080238A
 Agreement Number _____
 Field Name _____
 Unit Name _____
 Participating Area Name _____
 County SAN JUAN State NM
 Operator PENDRAGON ENERGY PARTNERS, INC K0835



Amended Report

Federal ☒

or

Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
 period 0 1 9 7 (mmyy) (See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
Operator Well Number									
00452241000S1 CHACO	7NWNW	26N	12W	PGW	31		11635		
300452241100S1 CHACO	1SESE	26N	13W	PGW	31		1170		
00452359300S1 2U CHACO LTD	1NWNW	26N	13W	PGW	31		257		
00452513400S1 J CHACO LTD	1NESW	26N	13W	PGW GSA					

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
• On hand, Start of Month	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
• Produced	_____	23062	_____
• Sold	_____	23062	XXXXXXXXXXXXX
• Spilled or Lost	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
• Flared or Vented	XXXXXXXXXXXXX	_____	XXXXXXXXXXXXX
• Used on or for Benefit of Lease	_____	_____	XXXXXXXXXXXXX
Injected	XXXXXXXXXXXXX	_____	XXXXXXXXXXXXX
• Gas Transferred	_____	_____	_____
Plant Number/Name _____	XXXXXXXXXXXXX	XXXXXXXXXXXXX	_____
• Surface Pits	_____	_____	_____
• Other	_____	_____	_____
Identify _____	_____	_____	_____
• On hand, End of Month	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
• API Gravity/BTU Content	_____	1048	XXXXXXXXXXXXX

COMMENTS

Robert Bomar 915-684-4407
 CONTACT NAME Bomar Consulting Service
 ADDRESS 110 N. Marienfeld, Suite 450
 Midland, Texas 79701-4412

PHONE NUMBER () EXT. _____

AUTHORIZING SIGNATURE _____ DATE _____ (mmddyy)

AUTHORIZING NAME (type or print) _____

PAGE 1 OF **

Lease Number NMSF080238A
Agreement Number _____
Field Name _____
Unit Name _____
Participating Area Name _____
County SAN JUAN State NM
Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report
Federal ☒
or
Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
period 1 2 9 6 (mmyy) (See reverse of form for instructions)

API Well Number Operator Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
300452241000S1 4 CHACO	7NWNW	26N	12W	PGW	31		12240		
300452241100S1 5 CHACO	1SESE	26N	13W	PGW	31		11277		
300452359300S1 2J CHACO LTD	1NWNW	26N	13W	PGW	31		47		
300452513400S1 1J CHACO LTD	1NESW	26N	13W	PGW GSI					

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
• On hand, Start of Month	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
• Produced	_____	23564	_____
• Sold	_____	23564	XXXXXXXXXXXXX
• Spilled or Lost	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
• Flared or Vented	XXXXXXXXXXXXX	_____	XXXXXXXXXXXXX
• Used on or for Benefit of Lease	_____	_____	XXXXXXXXXXXXX
• Injected	_____	_____	_____
• Gas Transferred	XXXXXXXXXXXXX	_____	XXXXXXXXXXXXX
Plant Number/Name _____	_____	_____	_____
• Surface Pits	XXXXXXXXXXXXX	XXXXXXXXXXXXX	_____
• Other	_____	_____	_____
Identify _____	_____	_____	_____
• On hand, End of Month	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
• API Gravity/BTU Content	_____	1049	XXXXXXXXXXXXX

COMMENTS

Robert Bomar 915-684-4407
CONTACT NAME Bomar Consulting Service
110 N. Marienfeld, Suite 450
ADDRESS Midland, Texas 79701-4412
PHONE NUMBER () EXT. _____
AUTHORIZING SIGNATURE [Signature] DATE 02 12 97 (mmddyy)
AUTHORIZING NAME (type or print) _____

Lease Number NMSF080238A
Agreement Number _____
Field Name _____
Unit Name _____
Participating Area Name _____
County SAN JUAN State NM
Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report
Federal ☒
or
Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
period 1 1 9 8 (mmyy) (See reverse of form for instructions)

API Well Number Operator Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
300452241000S1 4 CHACO	7NNW	26N	12W	PGW	30		11703		
300452241100S1 5 CHACO	1SESE	26N	13W	PGW	30		11139		
300452359300S1 2J CHACO LTD	1NWNE	26N	13W	PGW	30		410		
300452513400S1 J CHACO LTD	1NESW	26N	13W	PGW GSI					

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
• On hand, Start of Month	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
• Produced	_____	23252	_____
• Sold	_____	23252	XXXXXXXXXXXXX
• Spilled or Lost	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
• Flared or Vented	XXXXXXXXXXXXX	_____	XXXXXXXXXXXXX
• Used on or for Benefit of Lease	_____	_____	XXXXXXXXXXXXX
• Injected	_____	_____	_____
• Gas Transferred	XXXXXXXXXXXXX	_____	XXXXXXXXXXXXX
Plant Number/Name _____	_____	_____	_____
Surface Pits _____	XXXXXXXXXXXXX	XXXXXXXXXXXXX	_____
Other _____	_____	_____	_____
Identify _____	_____	_____	_____
• On hand, End of Month	_____	XXXXXXXXXXXXX	XXXXXXXXXXXXX
API Gravity/BTU Content	_____	1050	XXXXXXXXXXXXX

COMMENTS _____

Robert Bomar 915-684-4407
CONTACT NAME Bomar Consulting Service
110 N. Marienfeld, Suite 450
ADDRESS Midland, Texas 79701-4412
PHONE NUMBER () EXT. _____

AUTHORIZING SIGNATURE [Signature] DATE 01 14 97 (mmddyy)

AUTHORIZING NAME (type or print) _____

Lease Number NMSF080238A
 Agreement Number _____
 Field Name _____
 Unit Name _____
 Participating Area Name _____
 County SAN JUAN State NM
 Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
 or
 Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
 period 1 0 9 8 (mmyy) (See reverse of form for instructions)

API Well Number Operator Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
300452241000S1 4 CHACO	7NNW	26N	12W	PGW	31		11844		
300452241100S1 5 CHACO	1SESE	26N	13W	PGW	31		11300		
300452358300S1 2J CHACO LTD	1NWN	26N	13W	PGW GSI					
300452513400S1 1J CHACO LTD	1NESW	26N	13W	PGW GSI					

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
• On hand, Start of Month		XXXXXXXXXXXX	XXXXXXXXXXXX
• Produced		23144	
• Sold		23144	XXXXXXXXXXXX
• Spilled or Lost		XXXXXXXXXXXX	XXXXXXXXXXXX
• Flared or Vented	XXXXXXXXXXXX		XXXXXXXXXXXX
• Used on or for Benefit of Lease			XXXXXXXXXXXX
• Injected			
• Gas Transferred	XXXXXXXXXXXX		XXXXXXXXXXXX
Plant Number/Name			
• Surface Pits	XXXXXXXXXXXX	XXXXXXXXXXXX	
• Other			
Identify			
• On hand, End of Month		XXXXXXXXXXXX	XXXXXXXXXXXX
• API Gravity/BTU Content		1045	XXXXXXXXXXXX

COMMENTS

Robert Bomar 915-684-4407
Bomar Consulting Service
 CONTACT NAME 110 N. Marienfeld, Suite 450
 ADDRESS Midland, Texas 79701-4412

PHONE NUMBER () EXT.

AUTHORIZING SIGNATURE _____ DATE _____ (mmddyy)

AUTHORIZING NAME (type or print) _____

PAGE 1 OF **

Lease Number NMSF080238A
 Agreement Number _____
 Field Name _____
 Unit Name _____
 Participating Area Name _____
 County SAN JUAN State NM
 Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report. Federal ☒
 or Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
 period 0 9 9 8 (mmyy) (See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
Operator Well Number									
00452241000S1 CHACO	7NWNW	26N	12W	PGW	30		10756		
00452241100S1 CHACO	1SESE	26N	13W	PGW	30		10301		
00452359300S1 2J CHACO LTD	1NWNW	26N	13W	PGW GSI					
00452513400S1 J CHACO LTD	1NESW	26N	13W	PGW GSI					

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
On hand, Start of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
• Produced	21057	21057	XXXXXXXXXXXX
Sold	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Spilled or Lost	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
• Flared or Vented	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
• Used on or for Benefit of Lease	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Injected	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
• Gas Transferred	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Plant Number/Name	XXXXXXXXXXXX	XXXXXXXXXXXX	
Surface Pits	XXXXXXXXXXXX	XXXXXXXXXXXX	
Other			
Identify			
On hand, End of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
API Gravity/BTU Content	1038	XXXXXXXXXXXX	XXXXXXXXXXXX

COMMENTS _____

CONTACT NAME _____ PHONE NUMBER () _____ EXT. _____

ADDRESS _____

AUTHORIZING SIGNATURE _____ DATE _____ (mmddyy)

AUTHORIZING NAME (type or print) _____ PAGE 1 OF **

Lease Number NMSF080238A
 Agreement Number _____
 Field Name _____
 Unit Name _____
 Participating Area Name _____
 County SAN JUAN State NM
 Operator PENDRAGON ENERGY PARTNERS, INC K0835



Amended Report

Federal ☒
 or
 Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report

period 0 8 9 6 (mmyy)

(See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
Operator Well Number									
10452241000S1	7NWNW	26N	12W	PGW	31		11236		
CHACO									
300452241100S1	1SESE	26N	13W	PGW	31		12697		
CHACO									
0452359300S1	1NWNW	26N	13W	PGW	31		71		
2J CHACO LTD									
0452513400S1	1NESW	26N	13W	PGW					
CHACO LTD									

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
On hand, Start of Month		XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
• Produced		24004	
Sold		24004	XXXXXXXXXXXXXX
Spilled or Lost		XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
• Flared or Vented	XXXXXXXXXXXXXX		XXXXXXXXXXXXXX
• Used on or for Benefit of Lease			XXXXXXXXXXXXXX
• Injected			
• Gas Transferred	XXXXXXXXXXXXXX		XXXXXXXXXXXXXX
Plant Number/Name			
• Surface Pits	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	
• Other			
Identify			
On hand, End of Month		XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
• API Gravity/BTU Content		1039	XXXXXXXXXXXXXX

COMMENTS

CONTACT NAME Robert Bomar PHONE NUMBER (915) 694-4407 EXT. _____
 ADDRESS 110 N. Marienfeld, #450 Midland, TX 79701

AUTHORIZING SIGNATURE _____ DATE 10 1 196 (mmddyy)

AUTHORIZING NAME (type or print) _____

PAGE 1 OF **

Model MMS-3160

Royalty Management Program

Lease Number NMSF080238A
 Agreement Number _____
 Field Name _____
 Unit Name _____
 Participating Area Name _____
 County SAN JUAN State NM
 Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
 or Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report period 0 7 9 6 (mmyy) (See reverse of form for instructions)

API Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
00452241000S1	7NWNW	26N	12W	PGW	31		12418		
CHACO									
300452241100S1	1SESE	26N	13W	PGW	31		10922		
CHACO									
00452359300S1	1NWNW	26N	13W	PGW					
J CHACO LTD				GSI					
300452513400S1	1NESW	26N	13W	PGW					
J CHACO LTD				GSI					

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
On hand, Start of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Produced	23345	23345	XXXXXXXXXXXX
Sold	23345	XXXXXXXXXXXX	XXXXXXXXXXXX
Spilled or Lost	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Used on or for Benefit of Lease	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Injected	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Gas Transferred	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Plant Number/Name	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Surface Pits	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Other	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Identify	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
On hand, End of Month	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
API Gravity/BTU Content	1039	XXXXXXXXXXXX	XXXXXXXXXXXX

COMMENTS

CONTACT NAME Robert Bomar 915-684-4407
Bomar Consulting Service
 ADDRESS 110 N. Marienfeld, Suite 450
Midland, Texas 79701-4412

ONE NUMBER () EXT.

AUTHORIZING SIGNATURE _____ DATE (mmddyy)

AUTHORIZING NAME (type or print) _____

Lease Number NMSF080238A
Agreement Number _____
Field Name _____
Unit Name _____
Participating Area Name _____
County SAN JUAN State NM
Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
or
Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report period 0 6 9 6 (mmyy) (See reverse of form for instructions)

API Well Number Operator Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
300452241000S1 4 CHACO	7NNW	28N	12W	PGW	30	—	12194		
300452241100S1 5 CHACO	1SESE	26N	13W	PGW	30		10318		
300452359300S1 2J CHACO LTD	1NWNE	26N	13W	PGW	30		119		
300452513400S1 1J CHACO LTD	1NESW	26N	13W	PGW GSI					

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
On hand, Start of Month	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Produced	22631	22631	XXXXXXXXXXXXXX
Sold	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Spilled or Lost	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Used on or for Benefit of Lease	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Injected	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Gas Transferred	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Plant Number/Name	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	
Surface Pits	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	
Other			
Identify			
On hand, End of Month	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
API Gravity/BTU Content	1040	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX

COMMENTS

Robert Bomar 915-684-4407
Bomar Consulting Service
110 N. Marienfeld, Suite 450
Midland, Texas 79701-4412

PHONE NUMBER () EXT.

AUTHORIZING SIGNATURE _____ DATE (mmddyy)

AUTHORIZING NAME (type or print) _____

PAGE 1 OF **

Lease Number NMSF080238A
Agreement Number _____
Field Name _____
Unit Name _____
Participating Area Name _____
County SAN JUAN State NM
Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
or
Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report period 0 5 98 (mmyy) (See reverse of form for instructions)

API Well Number Operator Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
00452241000S1 CHACO	7NNW	26N	12W	PGW	31		12489		
300452241100S1 CHACO	1SESE	26N	13W	PGW	31		10411		
00452359300S1 CHACO LTD	1NWN	26N	13W	PGW	31		113		
00452513400S1 CHACO LTD	1NESW	26N	13W	PGW GSI					

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
On hand, Start of Month	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Produced	23013	23013	XXXXXXXXXXXXXX
Sold	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Spilled or Lost	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Used on or for Benefit of Lease	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Injected	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Gas Transferred	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Plant Number/Name	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Surface Pits	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Other	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Identify	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
On hand, End of Month	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
API Gravity/BTU Content	1040	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX

COMMENTS _____

Robert Bomar 915-684-4407
Bomar Consulting Service
110 N. Marienfeld, Suite 450
Midland, Texas 79701-4412

CONTACT NAME _____ PHONE NUMBER () _____ EXT. _____

ADDRESS _____

AUTHORIZING SIGNATURE _____ DATE 0 5 98 (mmddyy)

AUTHORIZING NAME (type or print) ALAN B. NICOL

Lease Number NMSF080238A
Agreement Number _____
Field Name _____
Unit Name _____
Participating Area Name _____
County SAN JUAN State NM
Operator PENDRAGON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
or
Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report period 0 4 9 8 (mmyy) (See reverse of form for instructions)

API Well Number Operator Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
100452241000S1 4 CHACO	7NWNW	26N	12W	PGW	30		12762		
100452241100S1 5 CHACO	1SESE	26N	13W	PGW	30		10402		
100452359300S1 2J CHACO LTD	1NWNW	26N	13W	PGW	30		108		
100452513400S1 J CHACO LTD	1NESW	26N	13W	PGW			0		

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
On hand, Start of Month	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Produced	73272		
Sold	23272		XXXXXXXXXXXXXX
Spilled or Lost	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXXXX		XXXXXXXXXXXXXX
Used on or for Benefit of Lease			XXXXXXXXXXXXXX
Injected			
Gas Transferred	XXXXXXXXXXXXXX		XXXXXXXXXXXXXX
Plant Number/Name	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	
Surface Pits	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	
Other			
Identify			
On hand, End of Month	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
API Gravity/BTU Content	1040		XXXXXXXXXXXXXX

COMMENTS _____
Robert Bomar 915-684-4407
Bomar Consulting Service
CONTACT NAME 110 N. Marienfeld, Suite 450 IONE NUMBER () EXT. _____
Midland, Texas 79701-4412
ADDRESS _____

AUTHORIZING SIGNATURE _____ DATE (mmddyy)

AUTHORIZING NAME (type or print) ALAN B. NICOL

Lease Number NMSF080238A
 Agreement Number _____
 Field Name _____
 Unit Name _____
 Participating Area Name _____
 County SAN JUAN State NM
 Operator HENDRICKSON ENERGY PARTNERS, INC K0835

☐ Amended Report Federal ☒
 or
 Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
 period 0 3 8 8 (mmyy) (See reverse of form for instructions)

API Well Number Operator Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
<u>0452241000S1</u> <u>CHACO</u>	<u>7NNW</u>	<u>28N</u>	<u>12W</u>	<u>PGW</u>	<u>31</u>		<u>13373</u>		
<u>300452241100S1</u> <u>CHACO</u>	<u>1SESE</u>	<u>28N</u>	<u>13W</u>	<u>PGW</u>	<u>31</u>		<u>10999</u>		
<u>00452359300S1</u> <u>2J CHACO LTD</u>	<u>1NWNE</u>	<u>28N</u>	<u>13W</u>	<u>PGW</u>	<u>31</u>		<u>394</u>		
<u>200452513400S1</u> <u>301 CHACO LTD</u>	<u>1NESW</u>	<u>28N</u>	<u>13W</u>	<u>PGW</u>	<u>0</u>		<u>0</u>		

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
On hand, Start of Month		<u>XXXXXXXXXXXXXX</u>	<u>XXXXXXXXXXXXXX</u>
Produced		<u>24766</u>	
Sold		<u>24766</u>	<u>XXXXXXXXXXXXXX</u>
Spilled or Lost		<u>XXXXXXXXXXXXXX</u>	<u>XXXXXXXXXXXXXX</u>
Flared or Vented	<u>XXXXXXXXXXXXXX</u>		<u>XXXXXXXXXXXXXX</u>
Used on or for Benefit of Lease			<u>XXXXXXXXXXXXXX</u>
Injected	<u>XXXXXXXXXXXXXX</u>		<u>XXXXXXXXXXXXXX</u>
Gas Transferred	<u>XXXXXXXXXXXXXX</u>		<u>XXXXXXXXXXXXXX</u>
Plant Number/Name <u>11111</u>	<u>XXXXXXXXXXXXXX</u>	<u>XXXXXXXXXXXXXX</u>	
Surface Pits			
Other			
Identify _____			
On hand, End of Month		<u>XXXXXXXXXXXXXX</u>	<u>XXXXXXXXXXXXXX</u>
API Gravity/BTU Content		<u>1050</u>	<u>XXXXXXXXXXXXXX</u>

COMMENTS _____

Robert Bomar 915-684-4407
Bomar Consulting Service
CONTACT NAME 110 N. Mariensfeld, Suite 450
Midland, Texas 79701-4412

PHONE NUMBER () EXT. _____

ADDRESS _____

AUTHORIZING SIGNATURE _____ DATE 1 1 1 1 1 1 (mmddyy)

AUTHORIZING NAME (type or print) ALAN B. NICOL

PAGE 1 OF **

BOM 9700 Form-MMS1

AUTHORIZING NAME (type or print) ALAN B NICOL

PAGE 1 OF **

BOM 9700 Form-MMS1

Model MMS-3160

Minerals Management Service
Royalty Management Program

Lease Number NMSF080238A
 Agreement Number _____
 Field Name _____
 Unit Name _____
 Participating Area Name _____
 County SAN JUAN State NM
 Operator PENDRAGON ENERGY PARTNERS, INC

☐ Amended Report K0835 Federal ☒
 or Indian ☐

The following is a correct report of operations and production (including status of all unplugged wells) for the report
 period 0 2 9 8 (mmyy) (See reverse of form for instructions)

API Well Number Operator Well Number	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
0452241000S1 CHACO	7NNW	26N	12W	PGW	29		12690		
300452241100S1 CHACO	1SESE	26N	13W	PGW	29		10356		
0452359300S1 2J CHACO LTD	1NWN	26N	13W	PGW	29		98		
300452513400S1 CHACO LTD	1NESW	26N	13W	PGW	0		0		

DISPOSITION OF PRODUCTION (Lease or Agreement Basis.)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
On hand, Start of Month		XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Produced		23144	
Sold		23144	XXXXXXXXXXXXXX
Spilled or Lost		XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXXXX		XXXXXXXXXXXXXX
Used on or for Benefit of Lease			XXXXXXXXXXXXXX
Injected			
Gas Transferred	XXXXXXXXXXXXXX		XXXXXXXXXXXXXX
Plant Number/Name			
Surface Pits	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	
Other			
Identify			
On hand, End of Month		XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
API Gravity/BTU Content		1051	XXXXXXXXXXXXXX

COMMENTS

Robert Bomar 915-684-4407

Bomar Consulting Service

CONTACT NAME 110 N. Marienfeld, Suite 450 E NUMBER () EXT. ADDRESS Midland, Texas 79701-4412AUTHORIZING SIGNATURE _____ DATE 1 1 1 1 1 (mmddyy)AUTHORIZING NAME (type or print) ALAN B NICOL

PAGE 1 OF

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