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July 2, 1996

RECEIPE

1996

Via Hand Delivery

Florene Davidson New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico Oil Conservation Division

101

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Dear Florene:

Enclosed are an original and two copies of an application for establishment of a pressure maintenance project, together with one copy of a proposed advertisement, filed on behalf of Pogo Producing Company. Please set this matter for the July 25, 1996 Examiner hearing.

Very truly yours,

HINKLE, COX, EATON, COFFIELD

& HENSLEY, L.L.F.

Mames' Blace

PROPOSED ADVERTISEMENT

Case: Application of Pogo Producing Company for a
pressure maintenance project, Lea County, New Mexico. Applicant
seeks approval to establish a pressure maintenance project in the
West Red Tank-Delaware Pool within its Federal Lease NM 86149
located in the W% of Section 26, Township 22 South, Range 32 East,
N.M.P.M., by the injection of natural gas through the perforated
interval from approximately 8399-8471 feet into its existing Red
Tank "26" Fed. Well No. 1, located 1880 feet from the South and
West lines (Unit K) of said Section 26. Said project is located
approximately miles of,
New Mexico

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Oil Conservation Division

24 miles not be some of Fine.

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

APPLICATION OF POGO PRODUCING

COMPANY FOR A PRESSURE MAINTENANCE

PROJECT, LEA COUNTY, NEW MEXICO.

Oil Conservation Division

APPLICATION

Pogo Producing Company hereby applies for an order establishing a pressure maintenance project, and in support thereof, states:

- 1. Applicant is the operator of United States Oil and Gas Lease NM 86149, which covers the W% of Section 26, Township 22 South, Range 32 East, N.M.P.M.
- 2. Applicant proposes to institute a natural gas injection project for pressure maintenance and secondary recovery of oil and gas from the Delaware formation (West Red Tank-Delaware Pool), in the following manner:
- (a) The Red Tank "26" Fed. Well No. 1, located 1880 feet from the South and West lines of Section 26 (Unit K), will be converted to injection. The injection interval will be 8399-8471 feet subsurface, in the Brushy Canyon member of the Delaware Mountain Group.
- (b) The injection gas will be from the Red Tank "26" Fed. Well No. 8, located 500 feet from the South line and 2310 feet from the West line of Section 26 (Unit N). The producing interval of said well is 4900-4921 feet subsurface, in the Ramsey interval of the Delaware Mountain Group.
- 3. The injected gas will provide pressure support to offsetting wells operated by applicant.

- Applicant requests that a project area comprising the S½NW¼ and SW¼ of Section 26 be approved, with an allowable of six times the depth bracket allowable for the West Red Tank-Delaware Pool.
- 5. The producing wells for said project area will be as follows:

Red Tank "26" Fed. No. 3 1980' FNL & 330' FWL §26 Red Tank "26" Fed. No. 4 2310' FSL & 330' FWL §26 Red Tank "26" Fed. No. 5 990' FSL & 330' FWL §26

WELL NAME

Red Tank "26" Fed. No. 7

- 6. The original Form C-108 for the injection well is attached hereto.
- 7. Approval of this application will increase recoverable reserves within the project area, and thus is in the interests of conservation and the prevention of waste.

WHEREFORE, applicant requests that, after notice and hearing, the application be granted.

Respectfully submitted,

HINKLE, COX, EATON, COFFIELD

LOCATION

1650' FNL & 1650' FWL §26

& HENSLEY, L.L.P.

 $oldsymbol{\mathit{J}}$ ames Bruce

P. O. Box 2068

Santa Fe, New Mexico 87501

(505) 982 - 4554

Attorneys for Pogo Producing Company

AFPLIC	ATION FOR AUTHORIZATION TO INJECT
I.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Dyes Xno
II.	Operator: POSO PRODUCING COMPANY
	Address: P.O. Box 10340 MIDLAND, TX 79702
	Contact party: RICHARD L. WRIGHT Phone: 915/682-6822
III.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project?
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
•	1. Proposed average and maximum daily rate and volume of fluids to be injected; 2. Whether the system is open or closed; 3. Proposed average and maximum injection pressure; 3. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 5. 1966injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing of the disposal zone, studies, nearby wells, etc.).
1111. C	Attach appropriate geological data on the injection zone including appropriate lithologically detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
х.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
III.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification
	I hereby certify that the information submitted with this application is true and correcto the best of my knowledge and belief.
	Name: BILL F. HALEPESKA Title ACENT (PC) Signature: Date: 7-1-96
	Signature: Dill Skeleptesh Date: 7-1-96
submi	e information required under Sections VI. VIII. λ_* and XI above has been previously tted, it need not be dublicated and resubmitted. Please show the date and circumstance e earlier submittal.

DISTRIBUTION: Original and one copy to 50-2 fe with one copy to the appropriate Division district office.

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application.
 The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each cosing atring wast with its size, secting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- 8. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

FORM C-108 ITEM 111-A

(1). LEASE: Red Tank 26 Fedural WALL	LOCATION: Sec. 26 TWP 22-5 Hange 32-6	County $\angle c = $ Footage $/880' \neq S * WL$		Surface Casing	Size /3-3% Depth 830 Cemented w/ 1235 sx.	TOC Surf Determined by Clrc 345 5x	Hole size 17-15	Intermediate Casing	Size <u>858</u> Depth <u>4635</u> Cemented w/ <u>2020</u> sx.	TOC 30r € Determined by CIRC. 150 sx	Hole size //	Long String	Size 5/3 Depth /0 050 Cemented w/ 15/65 sx.	TOC 2384 Determined by CBC	inter	1	Size 2-78 in., coated/lined with	Setting depth <u>8263</u> ft.	(4) INJECTION PACKEH:	Size 55 in.; Make/Model Gulberson Uki V'	Setting depth 2263ft.
SCHEMATIC			15%, 54* 1655 set @ 830'					85%, 32, 5-80 if J. cs @ 46.35	2018; cmc 160 sk 3 3 359 W/DVD			2th injection string in 8065	Charty Conyon perfs		- Guinor (100) 1 (10	Brushy Chrysn perifs 8399-847/		Bone Spring parts 9751-70'	5-1/2, 17 1/80 1 4-55 @ 10,050	TD: 10,050' Gem. 17,1565 st, 3 5495.	

ITEM 111-8

INJECTION WELL DATA

(1).	Injection formation: Delaware, Brushy Canson Field/Pool: West Red Tank Delaware
(2).	Injection interval, from 8399 ft. to $847/$ ft. Perforated
(3).	Original purpose well drilled producing Well in field &
	Other perforated intervals; X Yes No
	Squeezed with sx., or isolated by RBP @ 6707' over lower perfs & place 8263' 100/ating from upper perfs.
(5).	Oil or gas productive zone(s):
	Next higher: Cherry Cn. 6800'
	Next lower:

WELL DATA - AREA OF REVIEW

(1). Location:	1980 FN & EC Sec 26 T-12-5 R-32-E LEE CO.
Operator:	Culbertan & Irwin Lease: Culbertan Well# 1
Well type:	
Date Drille	
Completio	
	to my 5/2"; UNSUCTOSAN TO 3607'-MM 7"
	C9 cust w/300 5x. Drill to TD 4977' DIA:
	sondry notice attached
	Scridy victice altered
(3) Logotion:	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
(2). Location:	50 FSC & 2310 FW1 Sec 24 T-22-5 R-32-E (RQG)
Operator:	Poso Lease: Red Tauk 16 Fes Well # 8
Well type:	
Date Drille	
Completio	
	6600' W/2350 SX, cim 200 SX; per 49/6472-96';
	1/ 1000 gal F/ 49 400 GW + 29 460 \$ 16-30 sd POT 70 30
	+ 152 BW & 45 MCEG: Set RBT 5200': pert 4900-21'
	Allow and Flow Son MCFG
(3). Location:	990 FSC & 330 FW. Sec 26 T-22-5 VL-32-E, les Co.
Operator:	Poco Lease: RT 26 Feel Well # 5
Well type:	Oil × Gas D&A Depth: 8770'
Date Drille	1: 1-6-95 Date Completed: 2-6-95
Completion	
•	4564' W/1600 3x circ 250 5x' 51/2" @ 8770" W/ 11063X
	Toc 3610': per 840 36' A/1000 221 7/2% HC/
	F/58,000 931 GW + 102,100 \$ 20-40 Sd . PH 220
	BOPD + 12.2 BW + 137 MCF
	DATE TO STATE OF THE STATE OF T
(4). Location:	23/0' FSL & 330 FWE Sec 16. T-22-5 E-32-E LEZ CO.
Operator:	Pos Lease: PT 16 Feet Well # 4
Well type:	
Date Drille	
Completio	
Completio	
	450' W/1650 SX, dire 250 SX, 5/2"@ 8777' W/
	1170 5% Toc 4030: John 8483-8530 . A/1300
	gal 7/2/2 HC1: F/51 20, 221 GW + 46800#
	30-40 ST POT 530 BOPK + 110 PW & 563 MCF

WELL DATA - AREA OF REVIEW

(5). Location:	1980 FAC + 230 FWC Sec. 26 T-255, L-32-6, Cen C.	
Operator:	Poso Lease: Kad Tank 36 Ray Well # 3	
Well type:		
Date Drille		
Completio	n Data: 13-70" > 721 N/800 3 K CINC : 7-48" PHESS' N/100 SK;	
	5-12" @ 8801 11/1200 3x, TOC 2020; perf 8382-8413"	
	2 USAF : 4/1000 = 787. HCL/Peaks/10, & BS PRE-A/1000	
	gel 7/2% AKI/Anto 100 1 B: F/46,000 XCGW 137,130*	(
	20/40 =1	
(6). Location:	1650' FN & WC See 26, T-225, R-32-E. (E3 C.	
Operator:	Poso Lease: Red Tk) G FeDWell # 7	
Well type:		
Date Drille		
Completion		
	4575 W/2700 SX, CIR 243 EX 51/2" \$ 8735" W/1100 SX;	
	TOC 3570': Dent 8432-12'; A/1000 98/5 7/2%	
	401/Pental 100 + Es: F/SS, 400 43/5 GW x 77,540 x	
	20/40 SA 1 177 3 80 ROPD L 319 BW & 175 MCFG	
(1). Location:	1980'FS (\$ 660' FE (Sec 27 7-1) - 2 -31-F (+7 (`_
** *	1980' FS (\$ 660' FE (Sec = 7 7-22-5 , R-32-F , (ea (Page) Lease: Prize Fe Well # 3	ه
(1). Location: Operator: Well type:	1000 Lease: Prize Fed Well# 3	<u>.</u>
Operator:	Proso Lease: Prize Fea Well # 3 Oil X Gas D&A Depth: 7855'	<u>`</u> o.
Operator: Well type: Date Drille	Poso Lease: Prize Fed Well # 3 Oil X Gas D&A Depth: マミラン	<u>`</u> o.
Operator: Well type: Date Drille	Prize Fea Well # 3 Oil X Gas D&A Depth: 7855' d: 11-6-93 Date Completed: 12-2-33	<u>`</u> a.
Operator: Well type: Date Drille	Lease: $Prize = Ra$ Well # 3 Oil X Gas D&A Depth: $7855'$ d: $11-6-93$ Date Completed: $12-2-33$ Data: $13-3/8'' \approx 7/5' w/200 = x < r(250) = 8-5/3'' = 0$	<u>`</u>
Operator: Well type: Date Drille	Proso Lease: Prize Fed Well # 3	<u>.</u> o .
Operator: Well type: Date Drille	Prodo Lease: Prize Fed Well # 3	`a .
Operator: Well type: Date Drille	Production Pro	, 0 .
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ITEM VII

OPERATIONAL DATA

- (1). Average expected injection rate: 500 BWPD; maximum anticipated rate: 500 BWPD
- (2). Closed system
- (3). Estimated average injection pressure: 1680 psi.
 Estimated maximum pressure: 1680 psi.
- (4). Source of injection ster: Bell Canyon zone 4900-21'

 in the Popo-Red Tank 26 Fed. No. 8

 Analysis of waters attached.
- (5). Analysis of injection zone water attached.

 Data source: Red Tank & Fed # 1

GEOLOGICAL DATA

INJECTION ZONE
Lithological description: sandstone, It gray, fine to v. fine
grained, poorly consol., silty, poor cale. cmt.
Geological name: Brushy Canyon (Delaware)
Zone thickness: 72 ft.; Depth: 8399 ft.
FRESH WATER SOURCES
Geological name: NA
Depth to bottom of zone:ft.
ITEM 1X
STIMULATION PROGRAM (Proposed)
Volume: 2000 Type acid: 7/2 / HC/ + Perfol 100
Hate: 9 BPM; Misc. 108 RCM RS; good action
FRACTURE:
Fluid volume: <u>55,∞∞</u> gal.; Type: <u>×८ G W</u>
Prop type: <u>20-40 5d.</u> Volume (#): <u>68,38c</u>
Rate: 30.8 BPM; Conductor: 5/2 in.
Misc.
ITEM X LOGGING PROGRAM
Logging program included: GR-INDOCFICN SEL & CNID
Copy of <u>CND</u> log included in attachments
ITEM XI FRESH WATER ANALYSIS ALA
Fresh water well within 1 mile radius;YesNo
Chemical analysis from well(s) located:
Date sampled:
Chemical analysis from well(s) located:
Date sampled:
ITEM XII HYDROLOGY

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ilie Yates 9 · 1 · 35 62223	5052	5056 genta Fe Finer. a xiet un 85938 (1 772 9098 735017 214477		PRONGHOWN	F	20073 3-1-2001 92778
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	<i>u.s.</i> ⊕	U. S.	Strata Yates Pet etal	Straft.	FILL TARRES Per, MG PORS	Merician 7777
	JW McGraw 14. Strata Pros. 3:1-95	Strata Prod 12 1 95 86938	85940 , 025MM TTG62	36975 Prod.	3482	Texas Grade Courses
	92224	95939	Hills Market	1 772	State / 3402 Myca Ind. dirty-rea. 0	Fee 2 AM
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Ener	ेल केन्द्रस्य । इ.स.च्या १६	2/AF 1 96	Strate Unraced-Fed. Strate Prod Unraced-Fed. Strate Prod Unraced-Fed. Strate Prod Unraced-Fed. Strate Prod	N 60 3536344	56751	20073
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(SUBMIT IN TRIPLICATE)

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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

NOTICE OF INTENTION TO DRILL NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF REDRILLING ON REPAIR
(Indicate above by Check M	ARK NATURE OF REPORT, NOTICE, OR OTHER DATA)
	April 16 19_45
ON OF NE Bec. 26 E22 (M Sec. and Sec. No.) (Twp.)	from [N] line and 1980 ft. from [E] line of sec. 26 32E N. M. P. M. (Range) (Meridian) (New Mexico) nuty or Subdivision) (State or Territory)
The elevation of the derrick floor above sea	level isft.
DET	TAILS OF WORK
·	TAILS OF WORK
Confirming verbal converse Propose to start plugging From 4977 T.D. to 4830 with 10 is parted, 10 sacks cement from 1320 to 1290 with 10 from 1320 to 1290 with 1200 to 1200	FAILS OF WORK waizes, weights, and lengths of proposed casings; indicate mudding jobs, coment- all other important proposed work)
Confirming verbal converse Propose to start plugging From 4977 T.D. to 4830 with 10 is parted, 10 sacks cement from 1320 to 1290 with 10	FAILS OF WORK waites, weights, and lengths of proposed casings; indicate mudding jobs. commentall other important proposed work) sation of 4-16-45. this well on April 17, as follows: this well on April 17, as follows: this sacks cement, mud to 3625, sacks cement, mud to where 7" casing the interpretation of 7" casing stub, mud to 132 sacks cement. Markor will be sated.
Confirming verbal converse Propose to start plugging From 4977 T.D. to 4830 with 10 is parted, 10 sacks cement from 1320 to 1290 with 10 from 1320 to 1290 with 1200 to 1200	FAILS OF WORK waites, weights, and lengths of proposed casings; indicate mudding jobs. sementall other important proposed work) sation of 4-16-45. this well on April 17, as follows: this well on April 17, as follows: this sacks cement, mud to 3625, sacks cement, mud to where 7" casing the interpretation of 132 sacks cement. Markon will be set and
Confirming verbal converse Propose to start plugging From 4977 T.D. to 4830 will From 3625 to 3595 with 10 is parted, 10 sacks cement from 1320 to 1290 with 10 cement at top. Location	FAILS OF WORK waites, weights, and lengths of proposed casings; indicate mudding jobs. communication of 4-16-45. Sation of 4-16-45. Sthis well on April 17, as follows: this well on April 17, as follows: this sacks cement, mud to 3625, Sacks cement, mud to where 7" casing the interpretation of 7" casing stub, mud to 132 Sacks cement. Markor will be seen and
Confirming verbal convers Propose to start plugging From 4977 T.D. to 4830 will From 3625 to 3595 with 10 is parted, 10 sacks cement from 1320 to 1290 with 10 cement at top. Location	FAILS OF WORK waisen, weights, and lengths of proposed casings; indicate mudding jobs. semental other important proposed work) sation of 4-16-45. this well on April 17, as follows: this sacks cement, mud to 3625, sacks cement, mud to where 7" casing at in top of 7" casing stub, mud to 132 sacks cement. Marker will be set with will be cleaned and leveled.
Confirming verbal converse Propose to start plugging From 4977 T.D. to 4830 will From 3625 to 3595 with 10 is parted, 10 sacks cement from 1320 to 1290 with 10 cement at top. Location Lunderstand that this plan of work must receive approve Company Culbertson & Irwin Ir	FAILS OF WORK waites, weights, and lengths of proposed casings; indicate mudding jobs. somene- all other important proposed work) sation of 4-16-45. this well on April 17, as follows: th 30 sacks cement, mud to 3625, sacks cement, mud to where 7" casing t in top of 7" casing stub, mud to 132 sacks cement. Marker will be set with will be cleaned and leveled.
Confirming verbal converse Propose to start plugging From 4977 T.D. to 4830 will From 3625 to 3595 with 10 is parted, 10 sacks cement from 1320 to 1290 with 10 cement at top. Location Lunderstand that this plan of work must receive approve Company Culbertson & Truin I.	FAILS OF WORK waise, weights, and lengths of proposed casings; indicate mudding jobs, sement- all other important proposed work) sation of 4-16-45. this well on April 17, as follows: th 30 sacks cement, mud to 3625, sacks cement, mud to where 7" casing t in top of 7" casing stub, mud to 132 sacks cement. Marker will be set with will be cleaned and leveled. All in writing by the Geological Survey before operations may be commenced. Inc.

י בים יהרטיים היים בים יו

Laboratory Services, Inc.

1331 Tasker Drive Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

Pogo Producing Company

Attention: Mr. Richard Wright

P. O. Box 10340

Midland, Texas 79702

SAMPLE

IDENTIFICATION: RT 26 Fed. #8

COMPANY:

Paga Producing Ca.

LEASE:

PLANT:

GAS (XX)

SAMPLE DATA: DATE SAMPLED:

05-02-96

05-03-96

1380.00

SAMPLED BY:

LIQUID ()

ANALYSIS BY:

Rolland Perry Vickie Walker.

PRESSURE - PSIG SAMPLE TEMP. 'F

ANALYSIS DATE:

ATMOS. TEMP. 'F

85.00

REMARKS:

H2S = 0

COMPONENT ANALYSIS

		MOL		
COMPONENT		PERCENT	GPM	
Hydrogen Sulfide	(H2S)	0.00		
Nitrogen	(N2)	47.00		
Carbon Dioxide	(CO2)	0.00		
Methane	(C1)	40.21		
Ethane	(C2)	7.48	1.996	÷
Propane	(C3)	3.47	0.954	
I-Butane	(IC4)	0.33	0.108	
N-Butane	(NC4)	0.78	0.246	
I-Pentane	(IC5)	0.18	0.065	
N-Pentane	(NC5)	0.17	0.060	
Hexane Plus	(C6+)	0.38	0.156	
		100.00	3.585	
BTU/CU.FT DRY		694	MOLECULAR WT.	24.6172
AT 14.650 DRY		692		
AT 14.650 WET		680	•	
AT 14.73 DRY		696		
AT 14.73 WET		683		
SPECIFIC GRAVITY CALCULATE MEASURE	D	0.850		

Laboratory Services, Inc.

1331 Tasker Drive Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

Pogo Producing Company

Attention: Mr. Richard Wright

P. O. Box 10340

Midland, Texas 79702

SAMPLE

IDENTIFICATION: RT 26 Fed. #1

COMPANY: Pogo Producing Co.

LEASE: PLANT:

SAMPLE DATA: DATE SAMPLED:

05-02-96 10:05 AM GAS (XX)

05-03-96

SAMPLED BY:

LIQUID ()

ANALYSIS DATE: PRESSURE - PSIG

80.00

ANALYSIS BY:

Rolland Perry Vickie Walker

SAMPLE TEMP .: F

ATMOS. TEMP. F

85.00

REMARKS:

H2S = 0

COMPONENT ANALYSIS

		MOL		
COMPONENT		PERCENT	GPM	
Hydrogen Sulfide	(H2S)	0.00		
Nitrogen	(N2)	16.60		
Carbon Dioxide	(CO2)			
Methane	(CO2) (C1)	0.03 63.35		
Ethane	•		0 607	
	(C2)	10.07	2.687	
Propane	(C3)	5.87	1.614	
I-Butane	(IC4)	0.69	0.225	
N-Butane	(NC4)	1.79	0.563	
i-Pentane	(IC5)	0.47	0.172	
N-Pentane	(NC5)	0.47	0.171	
Hexane Plus	(C6+)	0.66	0.271	
		100.00	5.703	
BTU/CU.FT DRY		1116	MOLECULAR WT.	23.1302
AT 14.650 DRY		1112	WOLLCOLAH WY.	43.1302
AT 14.650 WET		1093		
AT 14.73 DRY		1118		
AT 14.73 WET		1099		
SPECIFIC GRAVITY	'			
CALCULATE		0.799		
MEASURE	כ			

