

DATE IN <u>3/15/99</u>	SUSPENSE <u>4/5/99</u>	ENGINEER <u>DC</u>	LOGGED BY <u>M</u>	TYPE <u>DHC</u>
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 2040 South Pacheco, Santa Fe, NM 87505



2262

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
 [DD-Directional Drilling] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

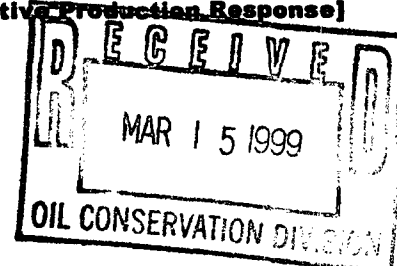
[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

[A] Location - Spacing Unit - Directional Drilling
☐ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



[2] **NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply**

[A] ☒ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE - Certification**

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil and Gas PO Box 4289, Farmington, NM 87499

Operator	Address		
Prichard Federal	#1	G-6-29N-8W	San Juan
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County
Spacing Unit Lease Types: (check 1 or more)			
OGRID NO. 14538	Property Code 7401	API NO. 30-045-08753	Federal <input checked="" type="checkbox"/> , State <input type="checkbox"/> , Fee <input type="checkbox"/>

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Pictured Cliffs-72359		Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	2919'-2959'		4506'-5241'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Current) a. 228 psi (see attachment) (Original) b. 1085 psi (see attachment)		a. 296 psi (see attachment) b. 1272 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1121		BTU 1225
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		No
* If Shut-In and oil/gas/water rates of last production <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small>	Date: N/A Rates:		Date: N/A Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: 1/31/99 Rates: 39 mcf/d		Date: 1/31/99 Rates: 204
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Will be supplied upon completion.		Will be supplied upon completion.

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☐ Yes ☒ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No

15. NMOCDCases for Rule 303(D) Exceptions: ORDER NO(S). _____

16. ATTACHMENTS:

- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation method or formula.
- * Notification list of all offset operators.
- * Notification list of working, overriding, and royalty interests for uncommon interest cases.
- * Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Mary Ellen Lutey TITLE Production Engineer DATE 3/9/99TYPE OR PRINT NAME Mary Ellen Lutey TELEPHONE NO. (505) 326-9700

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator Union Texas Petroleum			Lease Pritchard Federal			Well No. 1		
Unit Letter G	Section 6	Township 29N	Range 8W	County San Juan				
Actual Footage Location of Well: 1650 feet from the North line and 1650 feet from the East line								
Ground Level Elev. 6250	Producing Formation Pictured Cliffs		Pool Blanco Pictured Cliffs			Dedicated Acreage: 168.70 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. *1.05*
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

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

T.C. Simpson

Name

T. C. Simpson

Position

Dist. Production Manager

Company

Union Texas Petroleum

Date

February 19, 1968

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

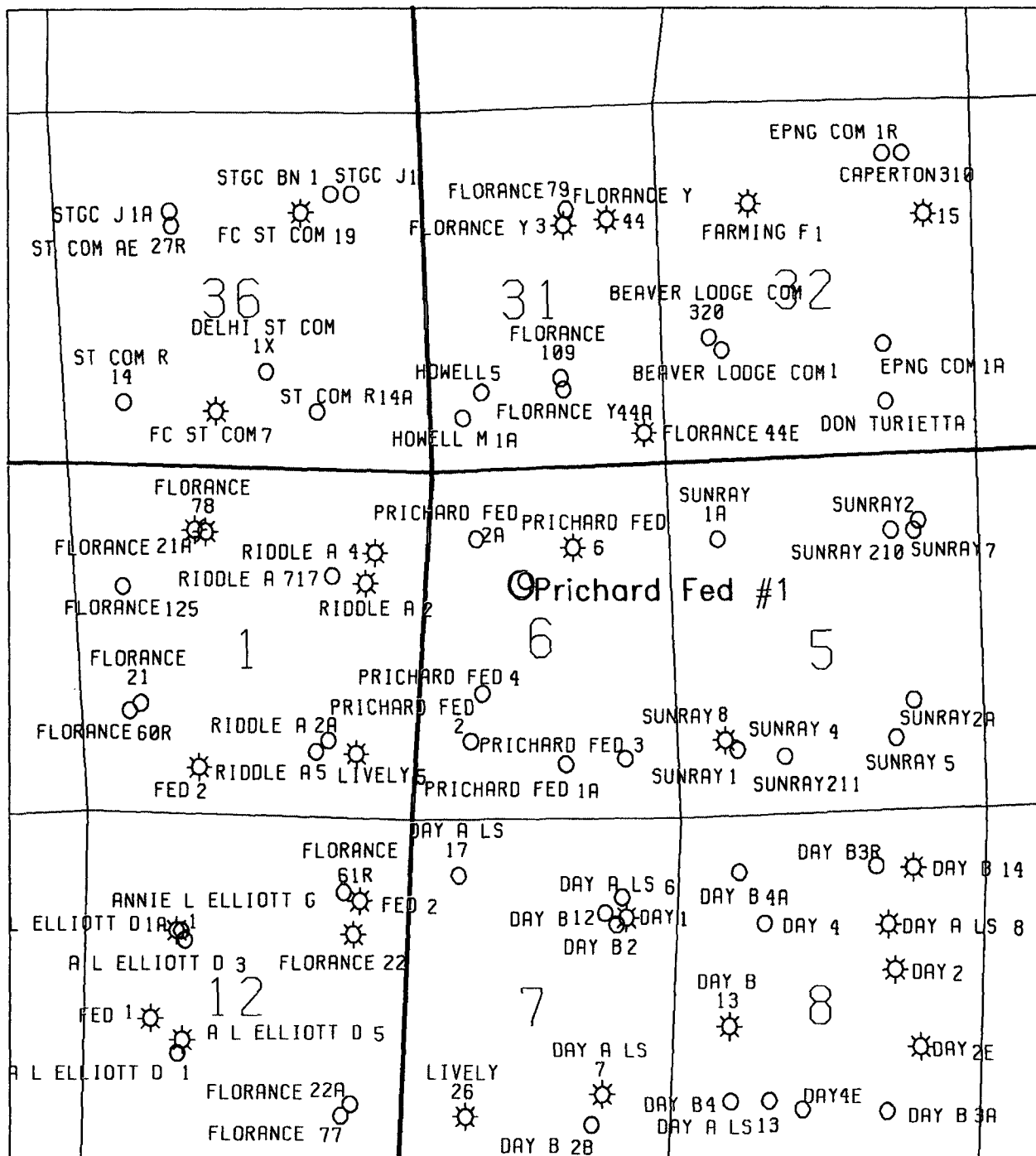
Date Surveyed

Registered Professional Engineer
and/or Land Surveyor

APR 1 - 1968

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600



Prichard Fed #1
Sec. 6 T29N R8W
MV/PC

BURLINGTON RESOURCES OIL AND GAS COMPANY

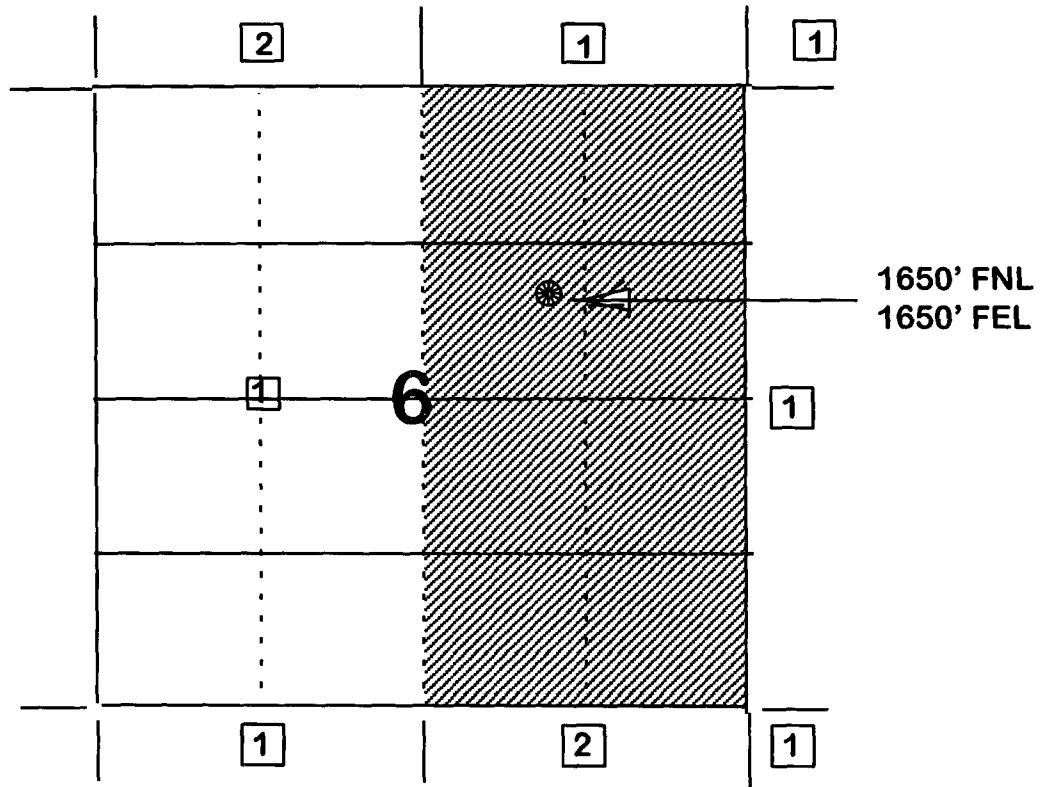
OFFSET OPERATOR \ OWNER PLAT

Prichard Federal #1

Down-hole Commingle

Pictured Cliffs (NE/4), Mesaverde (E/2) Formations

Township 29 North, Range 8 West



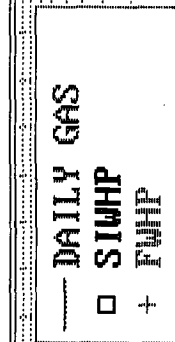
1) Burlington Resources

2) Amoco Production Co.
PO Box 800
Denver, Colorado 80201

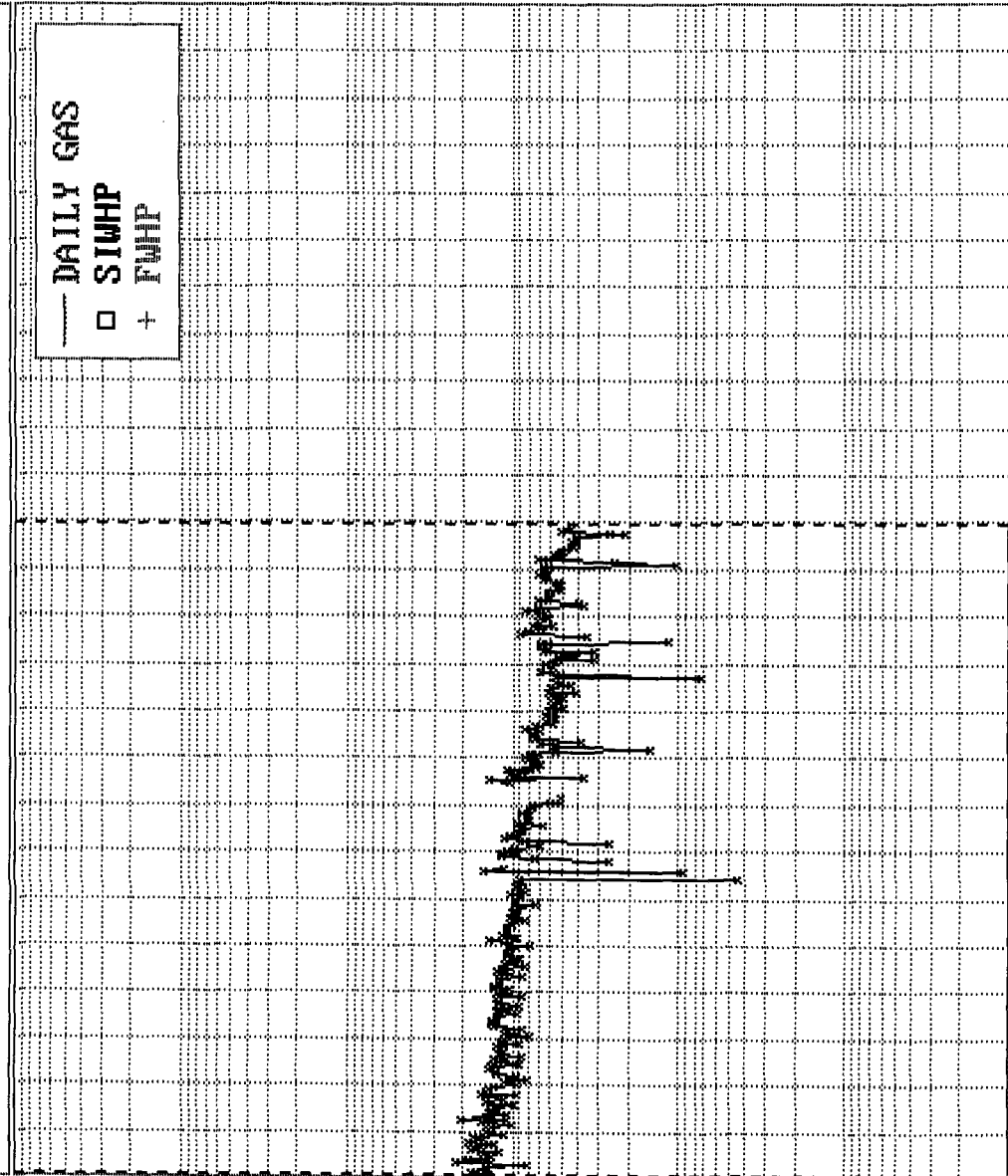
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0.1	1	10	100	1000	10000

PRICHARD FEDERAL 1 2222A-1

2601

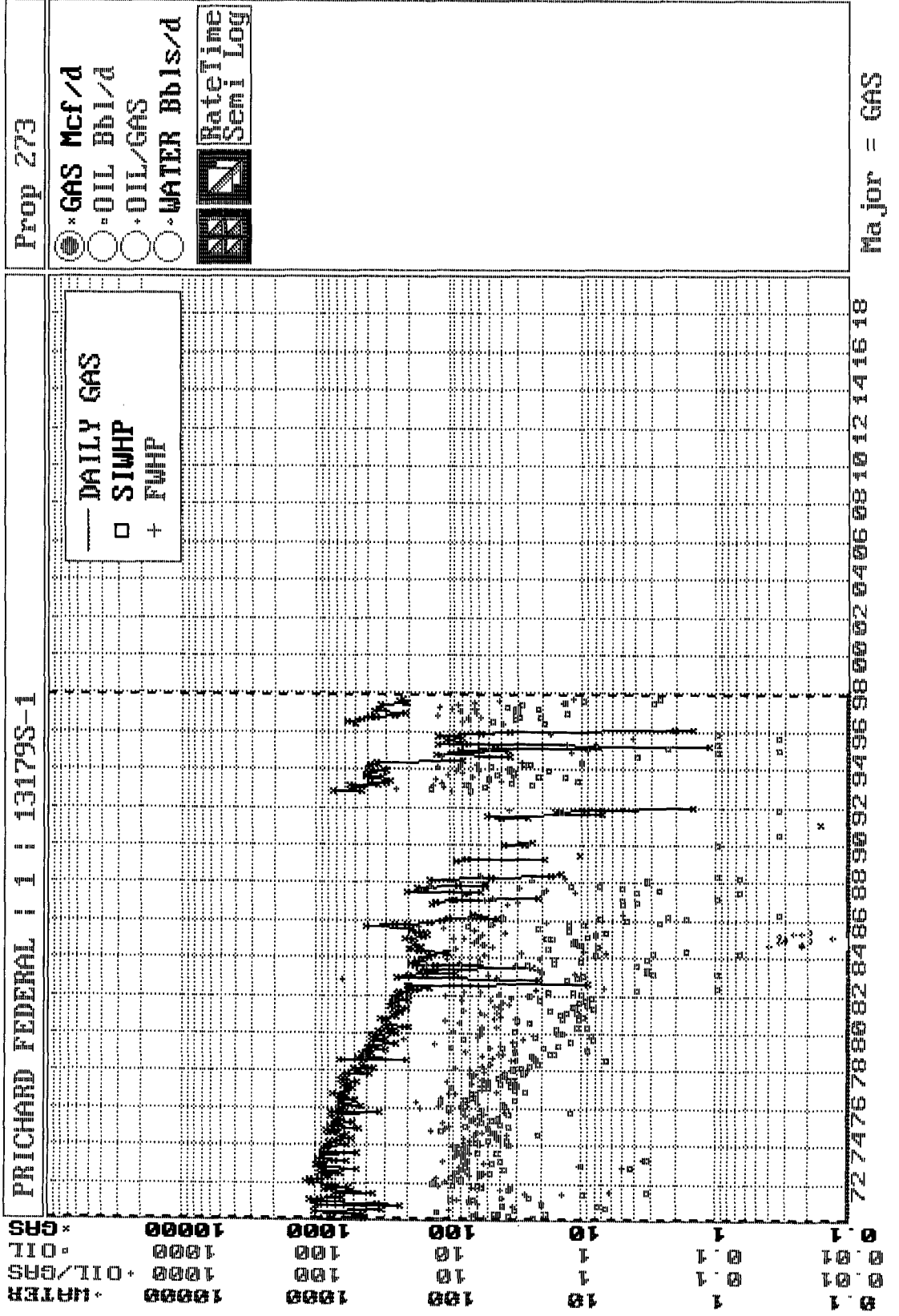


- ☒ GAS Mcf/d
☐ OIL bbl/d
☐ OIL/GAS
☐ WATER Bbls/d



727476788082848688909294969800020406081012141618

2
11
6
in position
10
7
8
9



Prichard Federal #1
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 1/14/98

Mesaverde		Pictured Cliffs	
<u>MV-Current</u>		<u>PC-Current</u>	
GAS GRAVITY	<u>0.705</u>	GAS GRAVITY	<u>0.668</u>
COND. OR MISC. (C/M)	<u>M</u>	COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.23</u>	%N2	<u>1.15</u>
%CO2	<u>0.84</u>	%CO2	<u>0.51</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>2.375</u>	DIAMETER (IN)	<u>7</u>
DEPTH (FT)	<u>4874</u>	DEPTH (FT)	<u>2939</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>124</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>99</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>262</u>	SURFACE PRESSURE (PSIA)	<u>212</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>296.3</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>227.6</u>
<u>MV-Original</u>		<u>PC-Original</u>	
GAS GRAVITY	<u>0.705</u>	GAS GRAVITY	<u>0.668</u>
COND. OR MISC. (C/M)	<u>M</u>	COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.23</u>	%N2	<u>1.15</u>
%CO2	<u>0.84</u>	%CO2	<u>0.51</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>2.375</u>	DIAMETER (IN)	<u>7</u>
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BOTTOMHOLE TEMPERATURE (DEG F)	<u>124</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>99</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1099</u>	SURFACE PRESSURE (PSIA)	<u>999</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1271.7</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>1084.7</u>

mv

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 Property ID: 8
 Property Name: PRICHARD FEDERAL | 1 | 13179S-1
 Table Name: S:\KGRAHAM\1999COMM\TEST.DBF

--DATE--	--CUM OIL-- Bbl	---CUM GAS-- Mcf	M SIWHP Psi	
05/11/53		0	1087.0	original
07/24/70		3843085	598.0	
04/15/71		4002264	615.0	
06/27/72		4343264	492.0	
03/18/73		4561203	487.0	
07/11/74		4924294	451.0	
06/30/76		5375301	429.0	
00/02/78		5694805	463.0	
00/02/78		5694805	463.0	
00/02/78		5694805	463.0	
10/02/78		5817896	463.0	
04/30/80		6002249	410.0	
05/10/82		6189915	403.0	
07/10/84		6295528	399.0	
04/18/86		6404647	400.0	
03/17/89		6453476	427.0	
06/07/91		6459111	453.0	
05/03/93		6574029	304.0	
03/01/99		6984805	250	Current estimated from P/z data

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Property ID: 9

Property Name: PRICHARD FEDERAL | 1 | 22222A-1

Table Name: S:\KGRAHAM\1999COMM\TEST.DBF

--DATE--	--CUM OIL--	---CUM GAS--	M SIWHP
	Bbl	Mcf	Psi

12/28/58		0	987.0 original
07/24/70		684003	570.0
06/27/72		789421	512.0
05/13/73		834332	499.0
07/11/74		885923	488.0
06/30/76		964932	357.0
00/02/78		1030028	380.0
00/02/78		1030028	380.0
00/02/78		1030028	380.0
10/02/78		1065573	380.0
04/30/80		1123875	341.0
05/10/82		1199092	341.0
07/10/84		1250295	353.0
03/01/99		1547349	200 current estimated from P/Z data

Pritchard Federal #1

Betty T. Johnston, Lyle E. Carbaugh, Paul
M. Hardwick Co-Trustees
Betty T. Johnston Martial Trust
2425 Fountainview #310
Houston, TX 77057

Cross Timbers Oil Company
PO Box 840287
Dallas, TX 752840287

V A Johnston Family Trust
C/o K Prewitt & M.A. Chesser Trustees
Box 925
Ralls, TX 79357

Richard H. Godfrey
Revocable Trust DTD 1-1-82
Oklahoma City, OK 73154

Orville C. Rodgers
3840 W. Bay Circle
Dallas, TX 752142925

Pritchard
Federal #1