

DATE IN 6/19/97	SUSPENSE 7/9/97	ENGINEER DC	LOGGED M	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

1611

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

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]

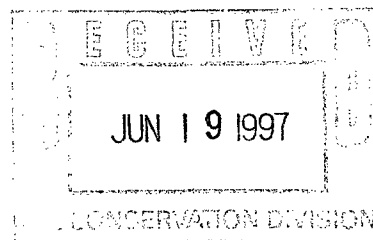
1] TYPE OF APPLICATION - Check Those Which Apply for [A]

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

Check One Only for [B] and [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 - Statement of Understanding

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, LI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Bradfield
 Print or Type Name Signature

Regulatory/Compliance Administrator
 Title

6/18/97
 Date

BURLINGTON RESOURCES

SAN JUAN DIVISION

June 16, 1997

SENT FEDERAL EXPRESS

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: Storey C #12
800'FNL, 1500'FWL Section 34, T-28-N, R-9-W, San Juan County, NM
API #30-045-13066

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Basin Fruitland Coal and the Aztec Pictured Cliffs in the subject well. It is intended to add the Fruitland Coal to the Pictured Cliffs and commingle.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

1. Form C107A - Application for Downhole Commingling;
2. C-102 plat for each zone showing its spacing unit and acreage dedication;
3. Production curve for the Pictured Cliffs and expected production curve for the Fruitland Coal;
4. Notification list of offset operators;
5. Shut in wellhead pressure and calculated down hole pressure of surrounding wells;
6. Nine-section plats for the Fruitland Coal and Pictured Cliffs.

Notification of Fruitland Coal and Pictured Cliffs interest owners is unnecessary, as all interests are identical.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely,



Peggy Bradfield
Regulatory/Compliance Administrator

xc: Bureau of Land Management - hand delivered

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 & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

STOREY C

12

C 34-28N-9W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7552 API NO. 30-045-13066 Federal ☒ , State , (and/or) Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Fruitland Coal - 71629		Aztec Pictured Cliffs - 71280
2. Top and Bottom of Pay Section (Perforations)	Will be supplied upon completion		2350' - 2394'
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. 254 psi (see attachment) (Original) b. 492 psi (see attachment)	a. b.	a. 183 psi (see attachment) b. 799 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1067		BTU 1087
7. Producing or Shut-In?	Shut - in		producing
Production Marginal? (yes or no)	no		yes
* If Shut-In and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion	Oil: % Gas: %	Oil: % Gas: % 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. NMOCD Reference Cases 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 Joan M. Easley TITLE Production Engineer DATE 6/5/97TYPE OR PRINT NAME Joan M. Easley TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-10
Revised February 21, 1997
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-13066		Pool Code 71629/71280	Pool Name Basin Fruitland Coal/Aztec Pictured Cliffs
Property Code 7552	Property Name Storey C		Well Number 12
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6212'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	34	28-N	6-W		800	North	1500	West	S.J.

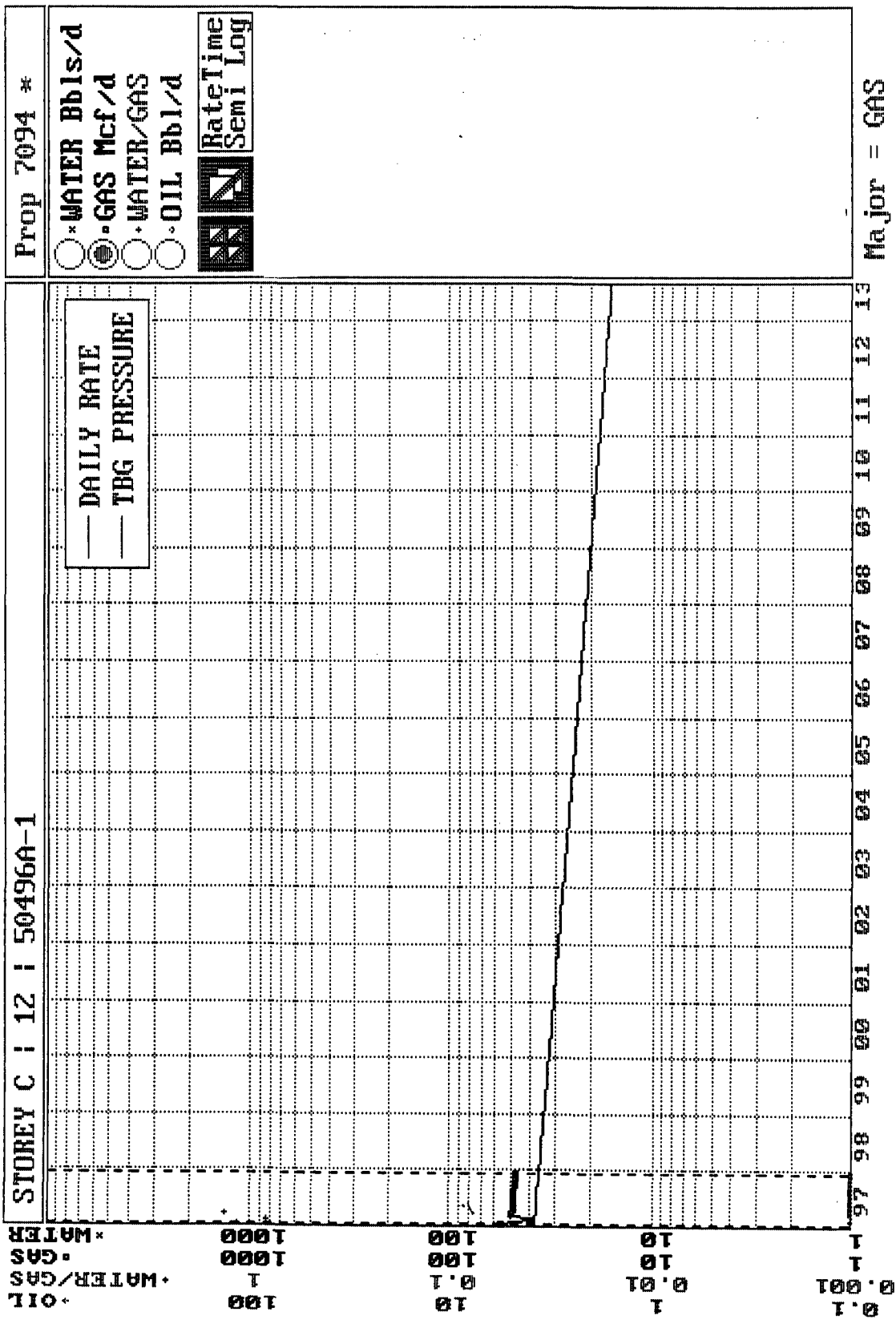
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres PC-160 FTC-N/320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>16</p>	<p>Not resurveyed, prepared from a plat by David O. Vilven dated 1-31-61.</p>		<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Peggy Bradfield</i> Signature Peggy Bradfield Printed Name Regulatory Administrator Title 6-18-97 Date</p>
	<p>34</p>		<p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>6/16/97 Date of Survey</p>
	<p>Signature and Seal of Professional Surveyor</p> <p><i>NEALE C. EDWARDS</i> NEW MEXICO 6857 REGISTERED PROFESSIONAL SURVEYOR</p>		<p>Certificate Number</p>

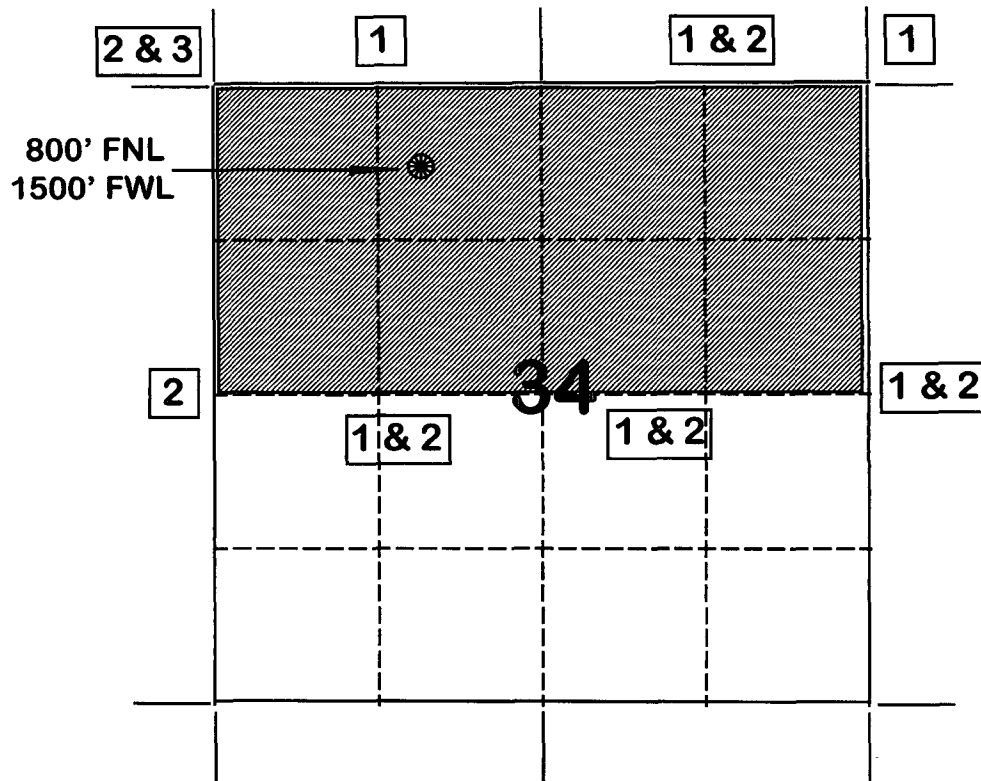


BURLINGTON RESOURCES OIL AND GAS COMPANY

**Storey C #12
OFFSET OPERATOR \ OWNER PLAT**

Pictured Cliffs (NW/4)/Fruitland Coal (N/2) Formations Commingle Well

Township 28 North, Range 9 West



- 1) Burlington Resources Oil and Gas Company
- 2) Amoco Production Company
Attn: Bruce Zimney
P.O. Box 800
Denver, CO 80201
- 3) S G Interest
811 Dallas, Suite 1605
Houston, TX 77002

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Page No.: 6
Print Time: Thu May 22 10:22:07 1997
Property ID: 7094
Property Name: STOREY C | 12 | 50496A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

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-DATE-- ---CUM GAS-- M SIWHP
||||| |||||McF||||| |||Psi|||

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8/17/61	0	754.0	← initial
10/06/61	0	753.0	
5/18/62	65000	481.0	
2/14/63	81000	528.0	
2/17/64	126000	480.0	
2/19/65	201000	391.0	
3/02/66	271000	370.0	
3/13/67	333000	347.0	
3/07/68	382000	331.0	
6/30/69	445134	295.0	
10/15/70	509289	252.0	
7/30/71	544414	240.0	
8/09/72	589793	228.0	
9/13/73	632995	217.0	
4/17/74	653366	212.0	
4/14/76	722323	202.0	
5/24/78	791802	163.0	
6/09/80	856491	164.0	
6/09/82	907461	180.0	
8/01/84	945415	191.0	
9/25/85	974059	148.0	
9/01/88	1014373	185.0	
5/08/90	1045889	205.0	
7/28/92	1074528	219.0	
06/17/94	1109178	174.0	← current

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.62
COND. OR MISC. (C/M)	C
%N2	0.17
%CO2	0.31
%H2S	0
DIAMETER (IN)	2.875
DEPTH (FT)	2375
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	100
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	754
BOTTOMHOLE PRESSURE (PSIA)	798.9

STOREY C #12 PICTURED CLIFFS - ORIGINAL PRESSURE

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.62
COND. OR MISC. (C/M)	C
%N2	0.17
%CO2	0.31
%H2S	0
DIAMETER (IN)	2.875
DEPTH (FT)	2375
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	100
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	174
BOTTOMHOLE PRESSURE (PSIA)	183.4

STOREY C #12 PICTURED CLIFFS - CURRENT PRESSURE

Page No.: 3

Print Time: Mon Jun 02 14:10:49 1997

FRUITLAND COAL

Property ID: 9246

Property Name: SHARP | 800 | 3719A-1

← Nearest offset to original pressure

Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- ---CUM GAS-- M SIBHP
Mcf Psi

(T28N-R08W-Sec.18)

05/17/89

469.0

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.611
COND. OR MISC. (C/M)	C
%N2	0.14
%CO2	0.52
%H2S	0
DIAMETER (IN)	2.875
DEPTH (FT)	2060
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	90
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	469
BOTTOMHOLE PRESSURE (PSIA)	491.9

SHARP #800 FRUITLAND COAL - ORIGINAL PRESSURE

Pressure Buildup on Fruitland Coal Zone of Sharp #5

Conducted January 1996

↑
nearest offset w/
current pressure
data
(28N-8W-See 18N)

Hours	Bottomhole Pressure, psia	Temperature, deg F
90	254	91
119	254	91
120	194	93
122	189	93
124	179	93
128	170	93
130	164	93
132	159	93
134	165	93
135	164	93
136	168	93
138	164	93
140	159	93
142	164	92
144	162	93
146	156	92
147	157	92
148	159	92
150	160	92
154	157	92
156	229	91
157	229	91
158	234	92
160	237	92
162	238	92
164	240	92
166	241	92
168	242	92
170	243	92
174	244	91
178	245	91
182	246	91
183	246	91
188	247	91
196	248	91
206	249	91
220	250	91
240	251	91
268	252	91
310	253	91
370	254	91
431	254	91

← current Fruitland Coal
Bottomhole Pressure

FARMINGTON

1997 MONTHLY PRODUCTION FOR 50496A

PHS030M1

STOREY C 12

BLANCO P.C. SOUTH (GAS) FIELD

PICTURED CLIFFS ZONE

DAYS				OIL			GAS							
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F	31				01	1715	31	1100	15.025		2	
2	2	F	28				01	1209	28	1100	15.025		1	
3	2	F	31				01	1481	31	1086	15.025		2	
4														
5														
6														
7														
8														
9														
10														
11														
12														

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

00/00/00 00:00:00:0

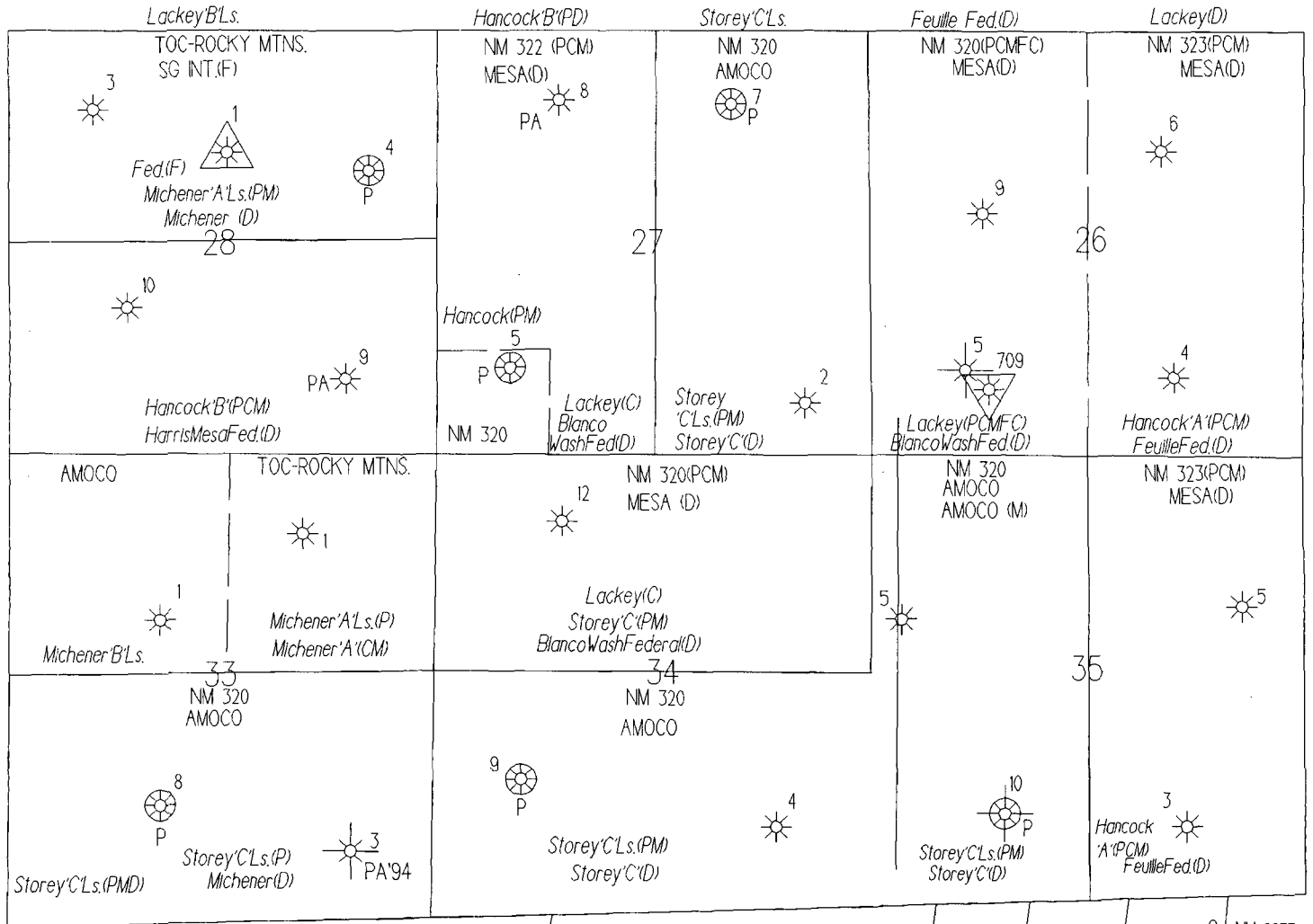
PRS 05/03/97

B MY JOB

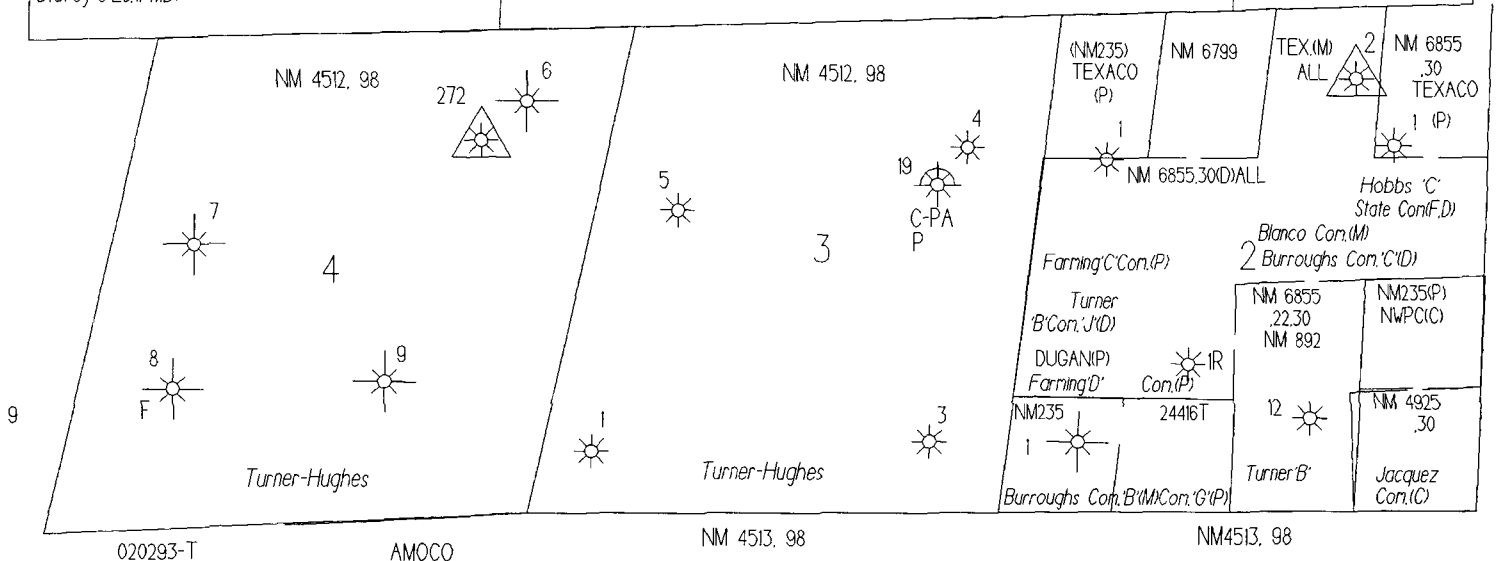
NUM LU #5

STOREY C #12

Section 34, T28N, R9W
Fruitland Coal / Pictured Cliffs



T
28
N



T
27
N

020293-T

AMOCO

NM 4513. 98

NM4513. 98

R-9-W