

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 87505-6429

Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil and Gas

Operator	Address		
Davis	#8	O-11-31N-12W	San Juan
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County
			Spacing Unit Lease Types: (check 1 or more)
OGRID NO.	Property Code	API NO.	Federal ☒ , State ☐ Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Mesaverde - 72319		Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	Will be supplied upon completion.		7334'-7481'
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. 508 psi (est.) (offset Davis 1) (see attachment) (Original) b. 1028 psi (est.) (offset Davis 1) (see attachment)		a. 641 psi (see attachment) b. 2340 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1223 (est.) (offset Davis 1)		BTU 1149
7. Producing or Shut-In?	Not completed yet.		Producing
Production Marginal? (yes or no)	Yes		No
* 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	Date: N/A Rates:		Date: N/A Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: Rates:		Date: 3/1/97 Rates: 243 mcf/d 1.8 bopd
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 ☐ No
11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flower 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 ☐ No
13. 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 Mary Ellen Lutey TITLE Production Engineer DATE 4/24/97

TYPE OR PRINT NAME Mary Ellen Lutey 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-
Revised February 21, 1
Instructions on b
Submit to Appropriate District Of
State Lease - 4 Co
Fee Lease - 3 Co

☐ AMENDED REPC

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-10857	Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 18509	Property Name Davis	Well Number 8
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6353'

10 Surface Location

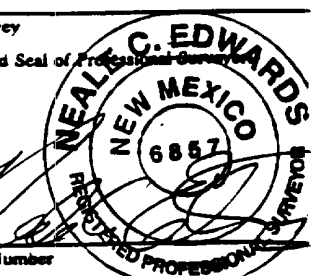
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	11	31-N	12-W		990	South	1650	East	S.J.

11 Bottom Hole Location If Different From Surface

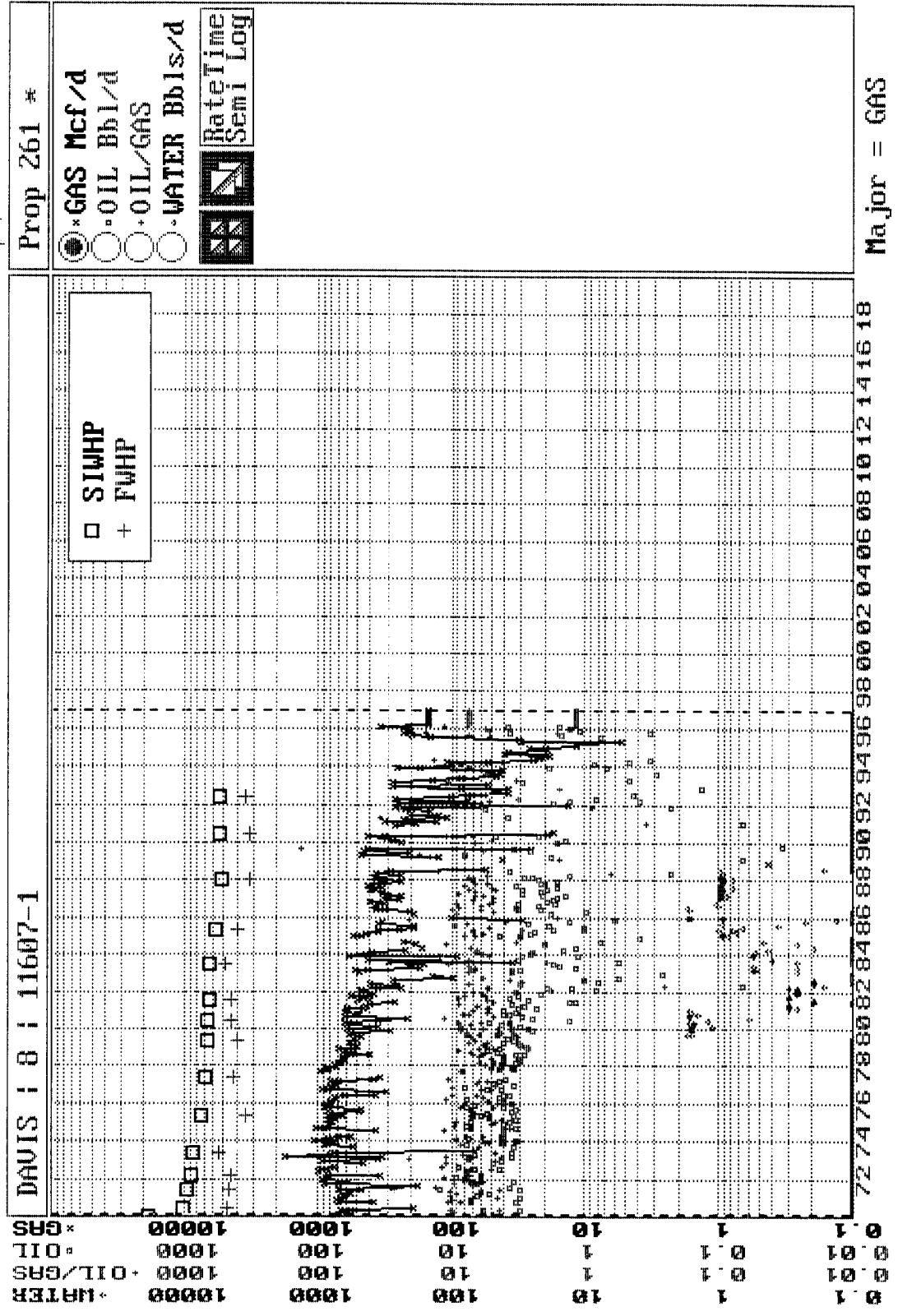
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres MV-E/305.96 DK-E/305.96	13 Joint or Infill 96	14 Consolidation Code	15 Order No.
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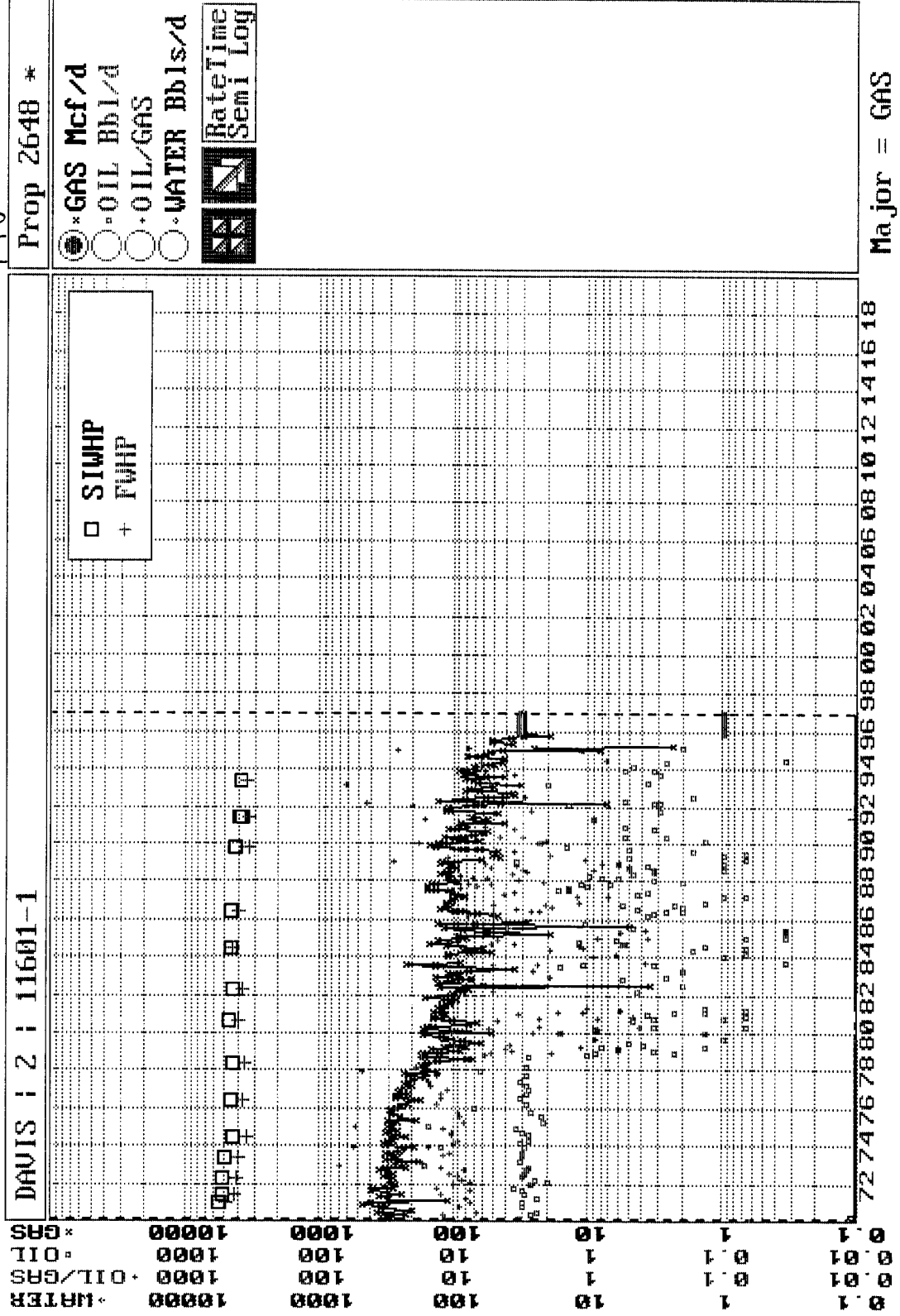
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 4 Not resurveyed, prepared from a plat by Ernest V. Echohawk dated 9-6-62.	3	2	1	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Peggy Bradfield Printed Name Regulatory Administrator Title 4-23-97 Date	
RECEIVED APR 29 1997 OIL CON. DIV. DIST. 3	7	8	6		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made, or under my supervision, and that the same is true and correct to the best of my belief. 4/24/97 Date of Survey Signature and Seal of Professional Surveyor  Certificate Number
12	11	10	9		
13	14	15	16		

17



MV

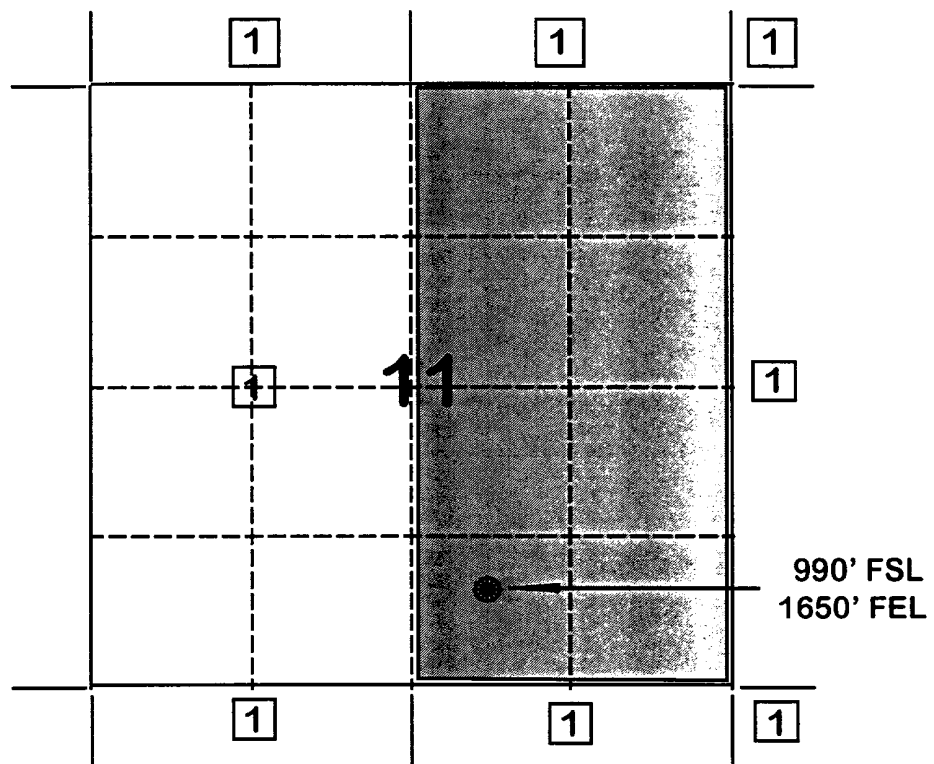


BURLINGTON RESOURCES OIL AND GAS COMPANY

**Davis #8
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde/Dakota Formations Commingle Well

Township 31 North, Range 12 West



1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.

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

VERSION 10/3/13/94

GAS GRAVITY	<u>0.69</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.23</u>
%CO2	<u>2.15</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.4</u>
DEPTH (FT)	<u>7594</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>200</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>535</u>
BOTTOMHOLE PRESSURE (PSIA)	641.2

DAVIS #8 DAKOTA - (CURRENT)

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

FILE: C:\GAS\BHP.DAT

GAS GRAVITY	0.69
COND. OR MISC. (C/M)	C
%N2	0.23
%CO2	2.15
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	7594
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1899
BOTTOMHOLE PRESSURE (PSIA)	2340.4

DAVIS #8 DAKOTA - (ORIGINAL)

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Browsing: DAVIS | 8 | Property No.: 31
 Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/15/1231
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
10/13/62	0	1899.0
06/12/70	1291125	1022.0
05/26/71	1454557	969.0
03/18/72	1642969	881.0
06/02/73	1914311	857.0
04/18/75	2332362	756.0
05/17/77	2834672	703.0
05/02/79	3245554	662.0
06/24/80	3448503	662.0
07/24/81	3621016	652.0
06/08/83	3825443	647.0
04/25/85	3983159	588.0
01/12/88	4254644	527.0
06/07/90	4406434	539.0
06/02/92	4509260	535.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table
 F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<- ->=Fast Tbl R & L

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Browsing: DAVIS | 8 | Property No.: 31
 Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 15/15/1231
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
10/13/62	0	1899.0
06/12/70	1291125	1022.0
05/26/71	1454557	969.0
03/18/72	1642969	881.0
06/02/73	1914311	857.0
04/18/75	2332362	756.0
05/17/77	2834672	703.0
05/02/79	3245554	662.0
06/24/80	3448503	662.0
07/24/81	3621016	652.0
06/08/83	3825443	647.0
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 F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<- ->=Fast Tbl R & L

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

WELL NO. 13-24

GAS GRAVITY	0.71
COND. OR MISC. (C/M)	C
%N ₂	0.83
%CO ₂	0.94
%H ₂ S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5470
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	442
BOTTOMHOLE PRESSURE (PSIA)	508.2

DAVIS #2 MESAVERDE - (ANTICIPATED)
DAVIS #1 MESAVERDE - (CURRENT)

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

GAS GRAVITY	0.71
COND. OR MISC. (C/M)	C
%N2	0.83
%CO2	0.94
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5470
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	884
BOTTOMHOLE PRESSURE (PSIA)	1028.4

DAVIS #2 MESAVERDE - (ANTICIPATED)
DAVIS #1 MESAVERDE - (ORIGINAL)

----- DWIGHTS TEST DATA REPORT ----- Row 1 to 10 of 15
 COMMAND ==> SCROLL ==> PAGE

State: 30 Lease Name: DAVIS
 Prod: 2 County Name: SAN JUAN
 Ident: 31N12W11E00MV Reservoir Name: MESAVERDE
 District: 4 Operator Name: BURLINGTON RES O&G CO
 Location: 11E 31N 12W Field Name: BLANCO (MESAVERDE)
 Retrieval code: 251,045,31N12W11E00MV Well: 1 Total Depth: 5404
 Gas Gath: SUG Status: ACT Upper Perf: 5048
 API No: 1093100 Comp Date: 194912 Lower Perf: 5310

Date	Cum to Test	WHSIP	BHP	P/Z	BDWtr	BDCnd	WHFlw	Poten	MC	Pt	Z	FAO
19491207	0	884	1010	1131	0	0	0	396	C	2	93.000	
19701119	1,865,022	484	548	584	0	0	444	391	C	2	39.000	
19710418	1,929,718	545	618	663	0	0	402	455	C	2	32.000	
19720418	2,108,823	516	585	625	0	0	408	694	C	2	36.000	
19730602	2,266,661	538	610	654	0	0	391	334	C	2	33.000	
19740602	2,404,666	453	513	544	0	0	333	404	C	2	43.000	
19760618	2,668,337	461	522	554	0	0	361	240	C	2	42.000	
19780503	2,865,861	433	490	519	0	0	337	243	C	2	45.000	
19800816	3,000,716	496	562	599	0	0	645	204	C	2	38.000	
19820408	3,069,418	490	555	591	0	0	385	105	C	2	39.000	

B MY JOB LU #20

----- DWIGHTS TEST DATA REPORT ----- Row 11 to 15 of 15
 COMMAND ==> SCROLL ==> PAGE

State: 30 Lease Name: DAVIS
 Prod: 2 County Name: SAN JUAN
 Ident: 31N12W11E00MV Reservoir Name: MESAVERDE
 District: 4 Operator Name: BURLINGTON RES O&G CO
 Location: 11E 31N 12W Field Name: BLANCO (MESAVERDE)
 Retrieval code: 251,045,31N12W11E00MV Well: 1 Total Depth: 5404
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 API No: 1093100 Comp Date: 194912 Lower Perf: 5310

Date	Cum to Test	WHSIP	BHP	P/Z	BDWtr	BDCnd	WHFlw	Poten	MC	Pt	Z	FAO
19840627	3,154,714	492	557	594	0	0	444	98	C	2	38.000	
19860610	3,213,116	486	551	587	0	0	380	120	C	2	39.000	
19891026	3,345,804	454	514	545	0	0	296	232	C	2	43.000	
19910528	3,399,675	442	500	530	0	0	339	86	C	2	44.000	
19930504	3,444,902	442	500	530	0	0	326	63	C	2	0.944	

***** Bottom of data *****

B MY JOB

LU #20

FARMINGTON

1997 MONTHLY PRODUCTION FOR 11607

PHS030M1

DAVIS 8

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

MO	T	S	DAYS	ON	PC	OIL	PROD	GRV	PC	GAS	PROD	ON	BTU	PRESS	WATER	PROD
1	2	F	31	02			51		01		7002	31	1149	15.025		
2	2	F	28	02			50		01		6811	28	1149	15.025		
3																
4							1.8 bopd				243 mcf/d					
5																
6																
7																
8																
9																
10																
11																
12																

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

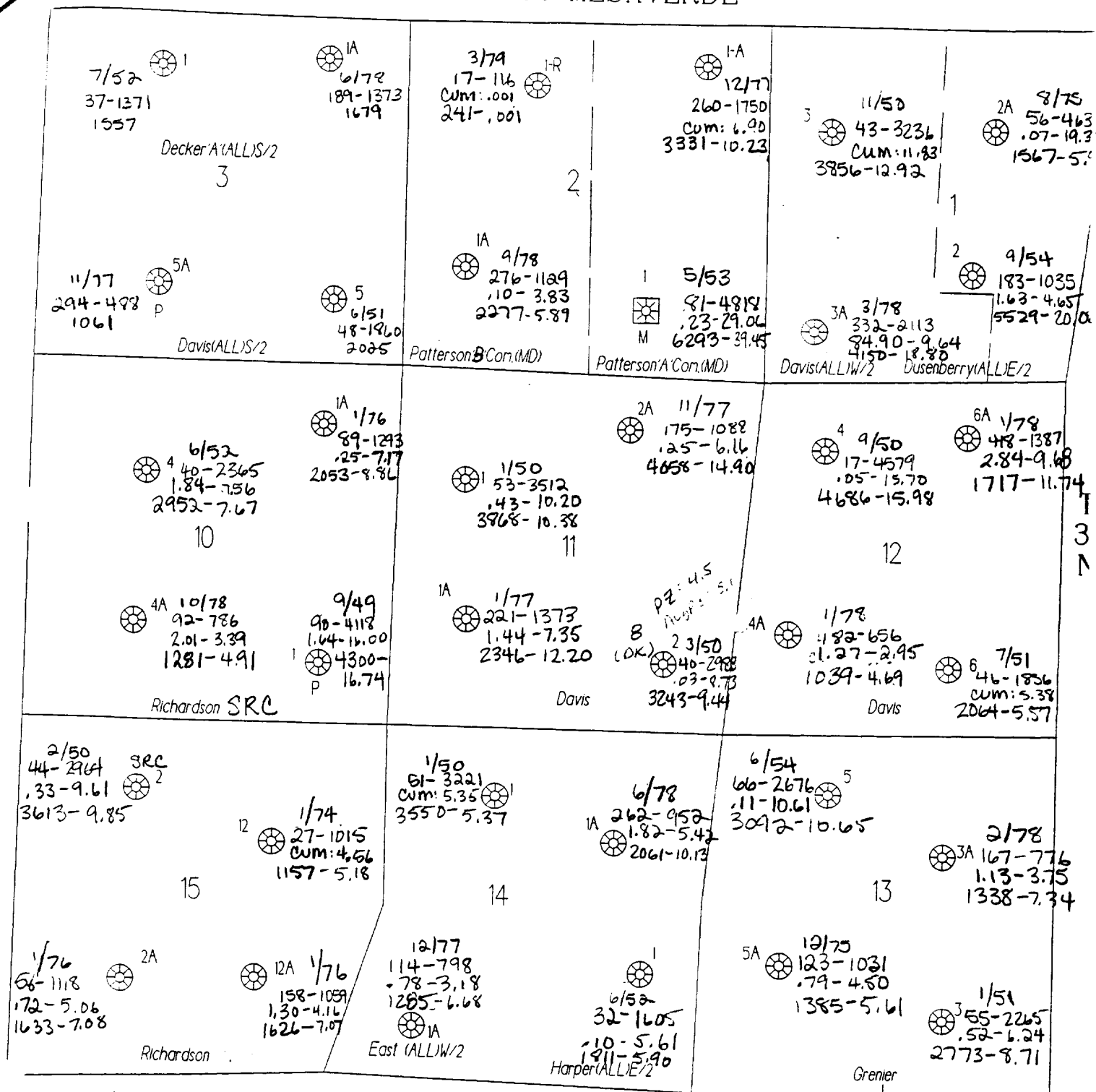
00/00/00 00:00:00:0

PRS 04/03/97

B MY JOB

NUM LU #29

DAVIS #28, 2, 1
SECTION 11, R31N, R12W
BLANCO MESAVERDE



R-12-W