

District I
1625 N. Franch Drive, Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

DK-4106

APPLICATION TYPE
☒ Single Well
☐ Establish Pre-Approved Pools
EXISTING WELLBORE
☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company, LP P.O.Box 4289 Farmington, NM 87499
Operator Address

Federal B 1 Unit N, Sec. 31, 030N, 011W SAN JUAN
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No: 14538 Property Code 7009 API No. 30045089230000 Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	CROUCH MESA MESAVERDE		BASIN DAKOTA
Pool Code	75680		71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3724'-3744'		6484'- 6710'
Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	250 psi		1600 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	BTU 1000		BTU 1000
Producing, Shut-In or New Zone	PRODUCING		PRODUCING
Date 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: APR 2008 Rates: 0 MCF		Date: APR 2008 Rates: 0 MCF
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas Will be supplied upon completion		Oil Gas Will be supplied upon completion

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No ☐
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ☐ No ☐
Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No ☐
Will commingling decrease the value of production? Yes ☐ No ☒
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes ☒ No ☐

NMOCD Reference Case No. applicable to this well: _____

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 working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

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

SIGNATURE Ryan Frost TITLE Engineer DATE 10/7/08
TYPE OR PRINT NAME Ryan Frost, Engineer TELEPHONE NO. (505) 326-9700
E-MAIL ADDRESS Ryan.M.Frost@conocophillips.com

Federal B 1
Unit N, Section 31, T30N, R11W

The Federal B 1 is a Crouch Mesa Mesaverde and Basin Dakota commingle. If the Crouch Mesa Mesaverde and Basin Dakota horizons can be isolated, a separator test will be performed and the allocation will be assigned with results using the subtraction method applied to the rate. In the event that the Crouch Mesa Mesaverde and Basin Dakota can not be tested separately, a volumetric calculation will be performed to determine the allocation percentages between the Crouch Mesa Mesaverde and Basin Dakota. All documentation will be submitted to the Aztec NMOCD office.

10/9/08 DATE IN	SUSPENSE	W Jones ENGINEER	10/9/08 LOGGED IN	DHC TYPE	PKURO28353414 APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [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 - Simultaneous Dedication
☐ NSL ☐ NSP ☐ 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
- [D] Other: Specify _____
- [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] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

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

Rhonda Rogers		Regulatory Technician	10/8/08
Print or Type Name	Signature	Title	Date
		rogerrs@conocophillips.com	
		e-mail Address	

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OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT
 SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

FORM C-128
 Revised 5/1/57

SECTION A

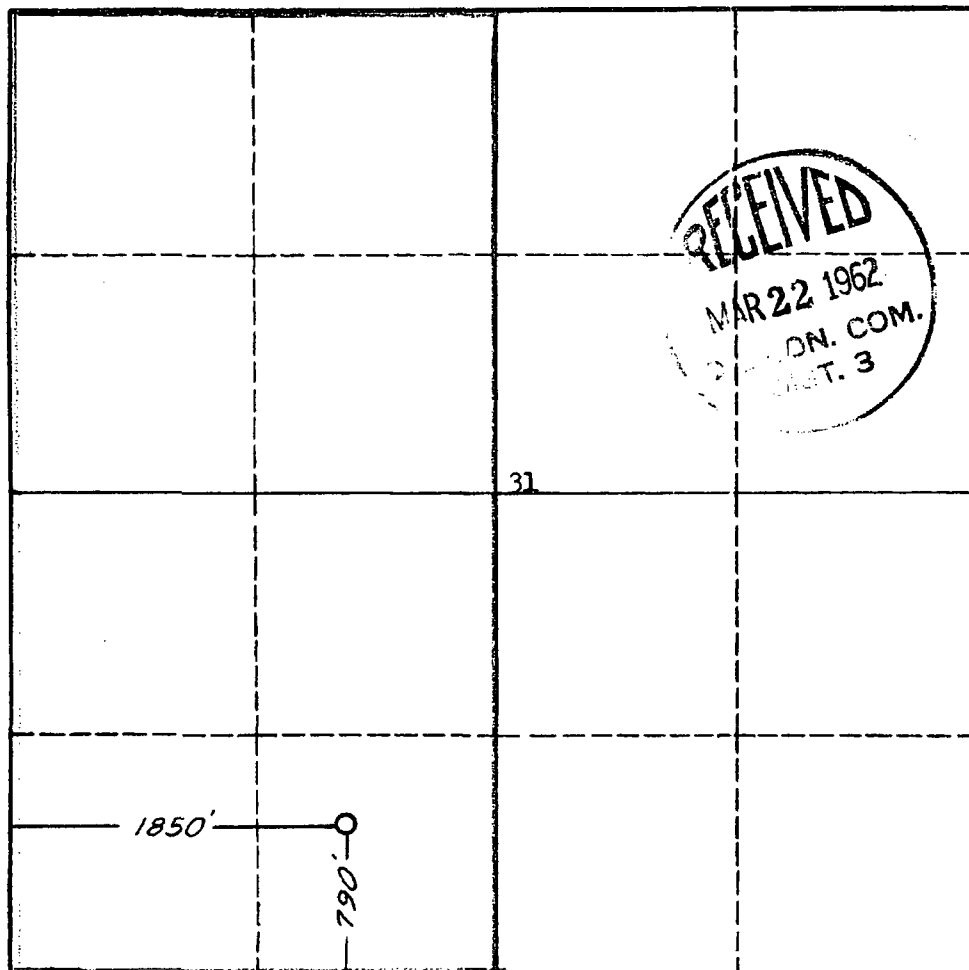
Operator SOUTHERN UNION GAS COMPANY		Lease FEDERAL		Well No. 1-31
Unit Letter N	Section 31	Township 30 NORTH	Range 11 WEST	County SAN JUAN
Actual Footage Location of Well: 790 feet from the SOUTH line and 1850 feet from the WEST line				
Ground Level Elev. 5847.5	Producing Formation Dakota & Mesaverde	Pool Basin Dakota & Und. M.V.	Dedicated Acreage: 34.1 Acres	

Ref: GLO plat dated 7 April 1881

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO X . ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES X NO ____ . If answer is "yes," Type of Consolidation Communitization
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B



CERTIFICATION

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

Gilbert D. Noland, Jr.
 Name
Gilbert D. Noland, Jr.
 Position
Drilling Superintendent
 Company
SUP CO.
 Date
March 19, 1962

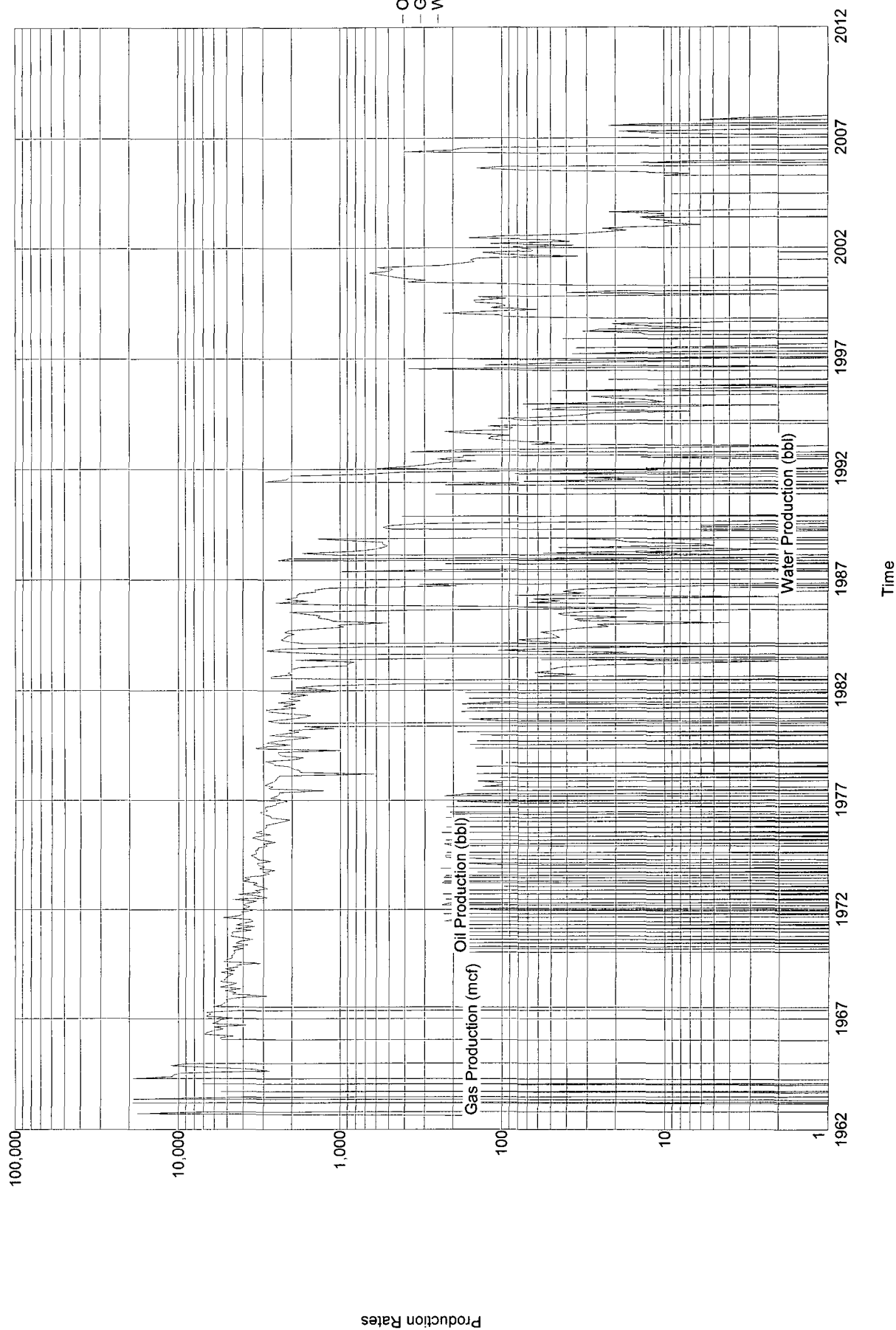
I hereby certify that the well location shown on the plat in SECTION B was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
16 March 1962
 Registered Professional Engineer and/or Land Surveyor
James P. Leese
James P. Leese
 Certificate No. **1463**
San Juan Engineering Company

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

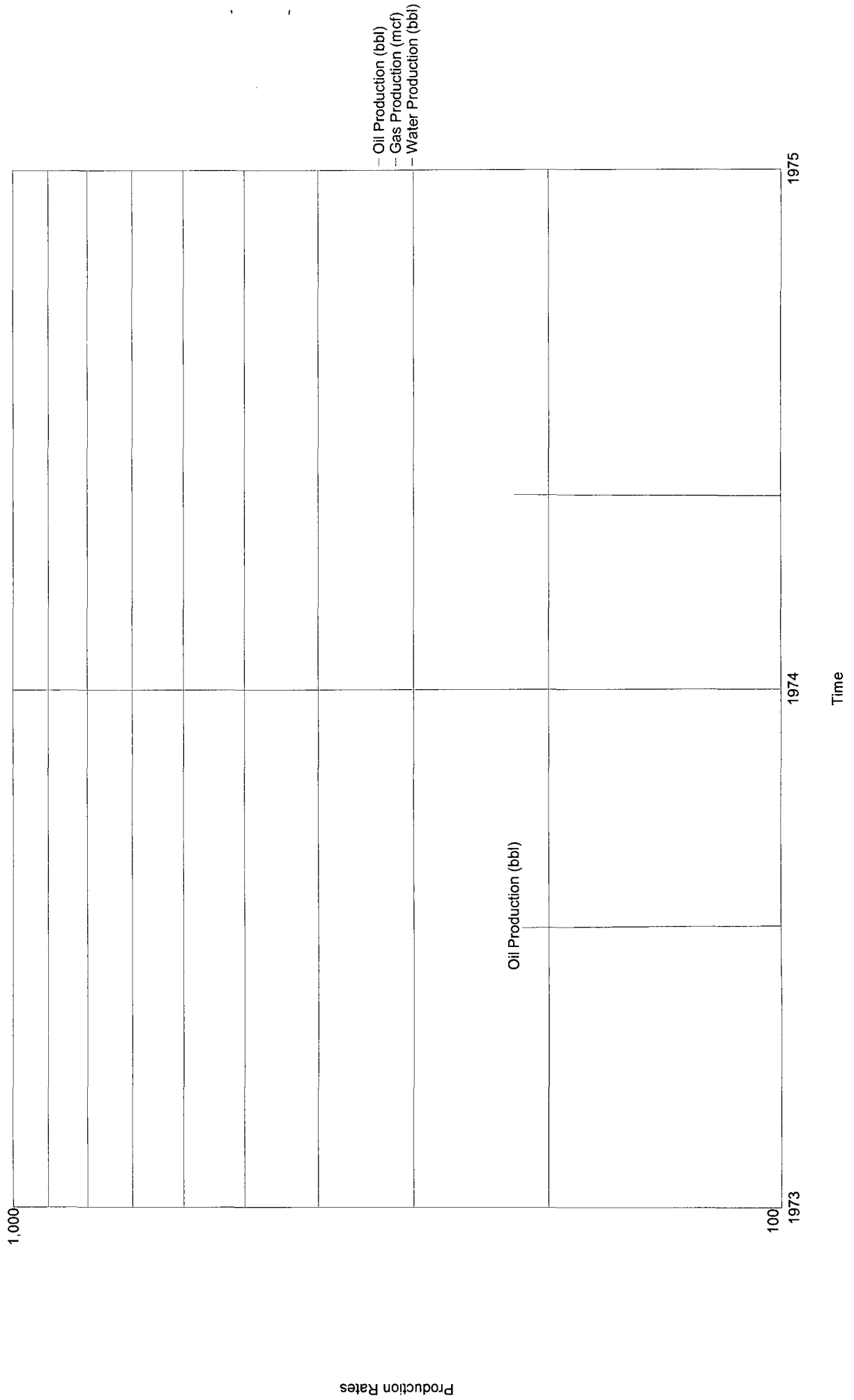
Lease Name: FEDERAL B
County, State: SAN JUAN, NM
Operator: BURLINGTON RESOURCES O&G CO LP
Field: BASIN
Reservoir: DAKOTA
Location: 31 30N 11W SE SW

FEDERAL B - BASIN



Lease Name: FEDERAL B
 County, State: SAN JUAN, NM
 Operator: BURLINGTON RESOURCES O&G CO LP
 Field: CROUCH MESA
 Reservoir: MESAVERDE
 Location: 31 30N 11W SE SW

FEDERAL B - CROUCH MESA



SAN JUAN NM
FEDERAL B 1
BURLINGTON RESOURCES O&G CO LP
INACTIVE

Detailed Production Report

Lease Name: FEDERAL B Lease Number: 007009 Operator Name: BURLINGTON RESOURCES O&G State: NEW MEXICO County: SAN JUAN Field: CROUCH MESA Sec Twn Rng: 31 30N 11W Latitude/Longitude: 36.76373 -108.03391 Regulatory #: API: 30045089230000 Production ID: 2300430450892375680 Reservoir Name: MESAVERDE Prod Zone: MESAVERDE Prod Zone Code: 604MVRD Basin Name: SAN JUAN BASIN Gas Gatherer: Liquid Gatherer: Status: INACTIVE	Well Number: 1 Cum Oil: 1,107 Cum Gas: 182,673 Cum Water: First Production Date: MAY 1962 Last Production Date: MAY 1974 Spot: SE SW Lat/Long Source: TS Completion Date: APR 30, 1962 Total Depth: 6772 Upper Perforation: 3727 Lower Perforation: 3740 Gas Gravity: Oil Gravity: Temp Gradient: 1.7 N Factor: GOR:
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Annual Production			(3 years)
Year	Oil BBLs	Gas MCF	Water BBLs

Beginning			
Cum:		182,673	
1970			
1973	449		
1974	222		
Totals:	1,107	182,673	

Monthly Production							
Date MO/YR	Oil BBLs	Gas MCF	Water BBLs	Cond Yld STB/MMCF	% Water	# of Wells	Days on

JAN 1970		0					
FEB 1970		0					
MAR 1970		0					
APR 1970		0					
MAY 1970		0					
JUN 1970		0					
JUL 1970		0					

AUG 1970	0		
SEP 1970	0		
OCT 1970	0		
NOV 1970	0		
DEC 1970	0		
Totals:			
1970			

JAN 1973	0		0
FEB 1973	0		0
MAR 1973	0		0
APR 1973	0		0
MAY 1973	0		0
JUN 1973	228		1
JUL 1973	221		1
AUG 1973	0		0
SEP 1973	0		0
OCT 1973	0		0
NOV 1973	0		0
DEC 1973	0		0
Totals:			
1973	449		

JAN 1974	0		0
FEB 1974	0		0
MAR 1974	0		0
APR 1974	0		0
MAY 1974	222		1
Totals:			
1974	222		

Gas Tests

Total count: 2

API Number	Well Number	Test Date	WHSIP	WHFP	BHP	BHP/Z	Water B/D	Cond B/D	Gas MCFD	AOF MCFD

First Test										
30045089230000	1	19620430	1258		1385	1603			3256	
30045089230000	1	19620523	1244	266	1369	1582			3256	

SAN JUAN NM

FEDERAL B 1

BURLINGTON RESOURCES O&G CO LP

ACTIVE

Detailed Production Report

Lease Name:	FEDERAL B	Well Number:	1
Lease Number:	007009	Cum Oil:	30,820
Operator Name:	BURLINGTON RESOURCES O&G	Cum Gas:	1,023,011
State:	NEW MEXICO	Cum Water:	131 since MAY 1986
County:	SAN JUAN	First Production Date:	MAY 1962
Field:	BASIN	Last Production Date:	DEC 2007
Sec Twn Rng:	31 30N 11W	Spot:	SE SW
Latitude/Longitude:	36.76373 -108.03391	Lat/Long Source:	TS
Regulatory #:		Completion Date:	APR 30, 1962
API:	30045089230000	Total Depth:	6772
Production ID:	2300430450892371599	Upper Perforation:	6484
Reservoir Name:	DAKOTA	Lower Perforation:	6710
Prod Zone:	DAKOTA	Gas Gravity:	0.66
Prod Zone Code:	602DKOT	Oil Gravity:	
Basin Name:	SAN JUAN BASIN	Temp Gradient:	1.75
Gas Gatherer:		N Factor:	
Liquid Gatherer:		GOR:	
Status:	ACTIVE		GAS

Annual Production			(45 years)
Year	Oil BBLS	Gas MCF	Water BBLS

Beginning		
Cum:		78,900
1962		25,485
1963		47,479
1964		89,860
1966		67,587
1967		60,041
1968		56,679
1969		56,005
1970	1,555	51,898
1971	1,362	48,066
1972	1,284	42,885
1973	1,388	38,949
1974	1,253	38,580
1975	1,014	35,789
1976	1,330	31,736
1977	1,013	29,826
1978	485	24,850
1979	585	28,272
1980	455	21,431
1981	962	25,004
1982	426	18,589
1983	347	15,063

1984	509	20,012	
1985	291	13,411	
1986	327	13,830	8
1987	127	5,931	49
1988	214	8,672	52
1989	19	2,278	
1990	9	258	
1991	269	10,640	
1992	30	2,791	
1993	1	1,228	
1994		498	
1995		141	
1996	22	771	
1997	42	90	
1998	32	350	
1999		1,286	
2000	8	3,419	1
2001	1	2,321	5
2002		691	
2003		96	14
2004		9	
2005	1	370	
2006	4	865	
2007	1	79	2
Totals:	<u>30,820</u>	<u>1,023,011</u>	<u>131</u>

Monthly Production

Date MO/YR	Oil BBLS	Gas MCF	Water BBLS	Cond Yld STB/MMCF	% Water	# of Wells	Days on
MAY 1962		0				0	
JUN 1962		0				0	
JUL 1962		0				0	
AUG 1962		174				1	
SEP 1962		17,908				1	
OCT 1962		7,403				1	
NOV 1962		0				0	
DEC 1962		0				0	
Totals:							
1962		<u>25,485</u>					
JAN 1963		0				0	
FEB 1963		0				0	
MAR 1963		19,218				1	
APR 1963		0				0	
MAY 1963		19,035				1	
JUN 1963		3,738				1	
JUL 1963		0				0	
AUG 1963		0				0	
SEP 1963		5,488				1	
OCT 1963		0				0	
NOV 1963		0				0	

DEC 1963	0	0
Totals:		
1963	47,479	
JAN 1964	7,147	1
FEB 1964	0	0
MAR 1964	0	0
APR 1964	18,956	1
MAY 1964	10,943	1
JUN 1964	10,758	1
JUL 1964	9,604	1
AUG 1964	2,750	1
SEP 1964	3,644	1
OCT 1964	6,287	1
NOV 1964	11,186	1
DEC 1964	8,585	1
Totals:		
1964	89,860	
JAN 1966	5,438	1
FEB 1966	5,564	1
MAR 1966	4,591	1
APR 1966	6,927	1
MAY 1966	6,605	1
JUN 1966	6,074	1
JUL 1966	5,265	1
AUG 1966	5,991	1
SEP 1966	3,812	1
OCT 1966	6,175	1
NOV 1966	5,694	1
DEC 1966	5,451	1
Totals:		
1966	67,587	
JAN 1967	4,652	1
FEB 1967	6,740	1
MAR 1967	6,314	1
APR 1967	6,707	1
MAY 1967	4,322	1
JUN 1967	0	0
JUL 1967	6,168	1
AUG 1967	5,421	1
SEP 1967	5,276	1
OCT 1967	4,924	1
NOV 1967	5,106	1
DEC 1967	4,411	1
Totals:		
1967	60,041	
JAN 1968	2,839	1
FEB 1968	4,646	1
MAR 1968	4,427	1
APR 1968	5,145	1
MAY 1968	4,134	1
JUN 1968	5,526	1
JUL 1968	4,839	1
AUG 1968	4,372	1

Roland, Kandis R

From: Hester, Colton
Sent: Monday, October 06, 2008 3:18 PM
To: Roland, Kandis R
Cc: Amadi, Samuel
Subject: RE: Another Bottom Hole Pressure

The MV pressure is ~250 psi. I will let Sam give you the DK pressure. (Thanks, Sam!)

-Colton

From: Roland, Kandis R
Sent: Monday, October 06, 2008 2:55 PM
To: Hester, Colton
Subject: Another Bottom Hole Pressure

Colton,

I have one more for you. It is the Federal B 1 (Crouch Mesa Mesaverde, Basin Dakota). Can you send me the shut in bottom hole pressure for these formations?

Thanks!
Kandis