

5/24/02	SUSPENSE NA	ENGINEER WJ	LOGGED IN RN	TYPE DHC	APP NO. 214256473
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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.

DARRIN STEED
 Print or Type Name

Darrin Steed
 Signature

OPERATIONS ENGR. 5/6/02
 Title Date

Darrin_Steed@XTOEnergy.com
 e-mail Address



May 16, 2002

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

RE: Application for Exception to Rule 303-C – Downhole Commingling
Florance #66F
Unit A, Sec 18, T-27-N R-8-W
Otero Chacra, Blanco Mesaverde and Basin Dakota Pools
San Juan County, New Mexico

Dear Ms. Wrotenberry,

Enclosed please find an administrative application form (C-107A) and attachments for downhole commingling the captioned well. XTO Energy Inc. (XTO) plans to complete all three zones in succession with an expected total commingled rate of about 1 BOPD, 1 BWPD and 780 MCFPD. The ownership (WI, NRI and ORRI) of these pools are identical in this wellbore. Downhole commingling in this manner will offer an economic method of production while protecting against reservoir damage, waste of reserves and violation of correlative rights. Offset operators have been sent a copy of this application by certified mail.

The allocation method was determined by analyzing estimated ultimate gas recoveries and cumulative oil production in a nine section area surrounding this well. Supporting documentation is shown on the attached spreadsheets and associated curves. Estimated bottom hole pressures were calculated from offset wells based on their initial completions. Calculations are enclosed on the accompanying spreadsheets. There is also an application pending to surface commingle this well with an existing adjacent battery. This battery is equipped with a wellhead compressor to maximize and stabilize production. XTO also operates two existing downhole trimingle Chacra/Mesaverde/Dakota wells in this area. They are the Florance #66 (DHC-1251) and the Florance #67 (DHC-1129).

If you need additional information or have any questions, please give me a call at (505) 324-1090.

Sincerely,
XTO ENERGY INC

A handwritten signature in cursive script that reads 'Darrin Steed'.

Darrin L. Steed
Operations Engineer

Enclosures

Cc: DLS File
Well File
GLM

C:\Work\Florance #66F\DHT application.doc

District I
1625 N. French 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 May 15, 2000

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

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

APPLICATION FOR DOWNHOLE COMMINGLING

XTO Energy Inc 2700 Farmington Ave., Bldg. K, Ste 1, Farmington, NM 87401
Operator Address

Florance 66F A-18-T27N-R8W San Juan
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 167067 Property Code API No. 30-045-31016 Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Otero Chacra (65)	Blanco Mesaverde (Pre-Gas)	Basin Dakota Pre-Gas
Pool Code	82329	72319	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	Est 3,950' – 4,000' (Perforated)	Est 5,100' – 5,300' (Perforated)	Est 7,250' – 7,550' (Perforated)
Method of Production (Flowing or Artificial Lift)	Flowing	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)	Est. 915 psig	Est. 1,098 psig	Est. 780 psig
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1206 BTU	1300 BTU	1228 BTU
Producing, Shut-In or New Zone	New Zone	New Zone	New Zone
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: Est. Rates: 0 BOPD 0.1 BWPD 200 MCFPD	Date: Est. Rates: 0.4 BOPD 0.5 BWPD 100 MCFPD	Date: Est. Rates: 0.6 BOPD 0.4 BWPD 200 MCFPD
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 0 % 13 %	Oil Gas 39 % 49 %	Oil Gas 61 % 38 %

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 Darrin Steed TITLE Operations Engineer DATE May 16, 2002

TYPE OR PRINT NAME Darrin Steed TELEPHONE NO. (505) 324-1090

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 82329	³ Pool Name OTERO CHACRA
⁴ Property Code	⁵ Property Name FLORANCE	⁶ Well Number 66F
⁷ OGRID No. 167067	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6803'

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
A	18	27-N	8-W		660	NORTH	660	EAST	SAN JUAN

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 160 NE/4									
¹³ Joint or Infill					¹⁴ Consolidation Code		¹⁵ Order No.		

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	QTR. CORNER FD 2 1/2" BC BLM 1955	N 87-52-39 W 2589.6'	SEC. CORNER FD 2 1/2" BC BLM 1955	17	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature <u>Jeffrey W. Patton</u> Printed Name <u>JEFFREY W PATTON</u> Title <u>DRILLING ENGINEER</u> Date <u>4-11-02</u>	
LOT 1						
LOT 2		LAT: 36°34'49" N. LONG: 107°42'57" W.				
LOT 3						
LOT 4						
					18	SURVEYOR CERTIFICATION 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 belief. Date of Survey <u>14827</u> Signature and Seal of Professional Surveyor: 14827 Certificate Number

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-100
Revised August 15, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 72319	³ Pool Name BLANCO MESAVERDE
⁴ Property Code	⁵ Property Name FLORANCE	⁶ Well Number 66F
⁷ GRID No. 167067	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6803'

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
A	18	27-N	8-W		660	NORTH	660	EAST	SAN JUAN

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 370 E/2		¹³ Joint or Infill I		¹⁴ Consolidation Code		¹⁵ Order No.			

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	LOT 1	QTR. CORNER FD 2 1/2" BC BLM 1955	N 87-52-39 W 2589.6'	SEC. CORNER FD 2 1/2" BC BLM 1955
	LOT 2		LAT: 36°34'49" N. LONG: 107°42'57" W.	660' 635' 674'
	LOT 3			5336.4'
	LOT 4			S 00-20-27 W

17 OPERATOR CERTIFICATION

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

Signature JWP
Printed Name JEFFREY W PATTON
Title DRILLING ENGINEER
Date 4-11-02

18 SURVEYOR CERTIFICATION

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 belief

Date of Survey 14827
Signature and Seal of Professional Surveyor

14827
Certificate Number

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code	⁵ Property Name FLORANCE	⁶ Well Number 66F
⁷ OGRID No. 167067	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6803'

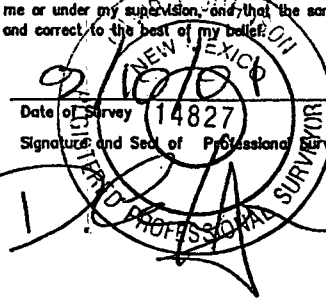
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	18	27-N	8-W		660	NORTH	660	EAST	SAN JUAN

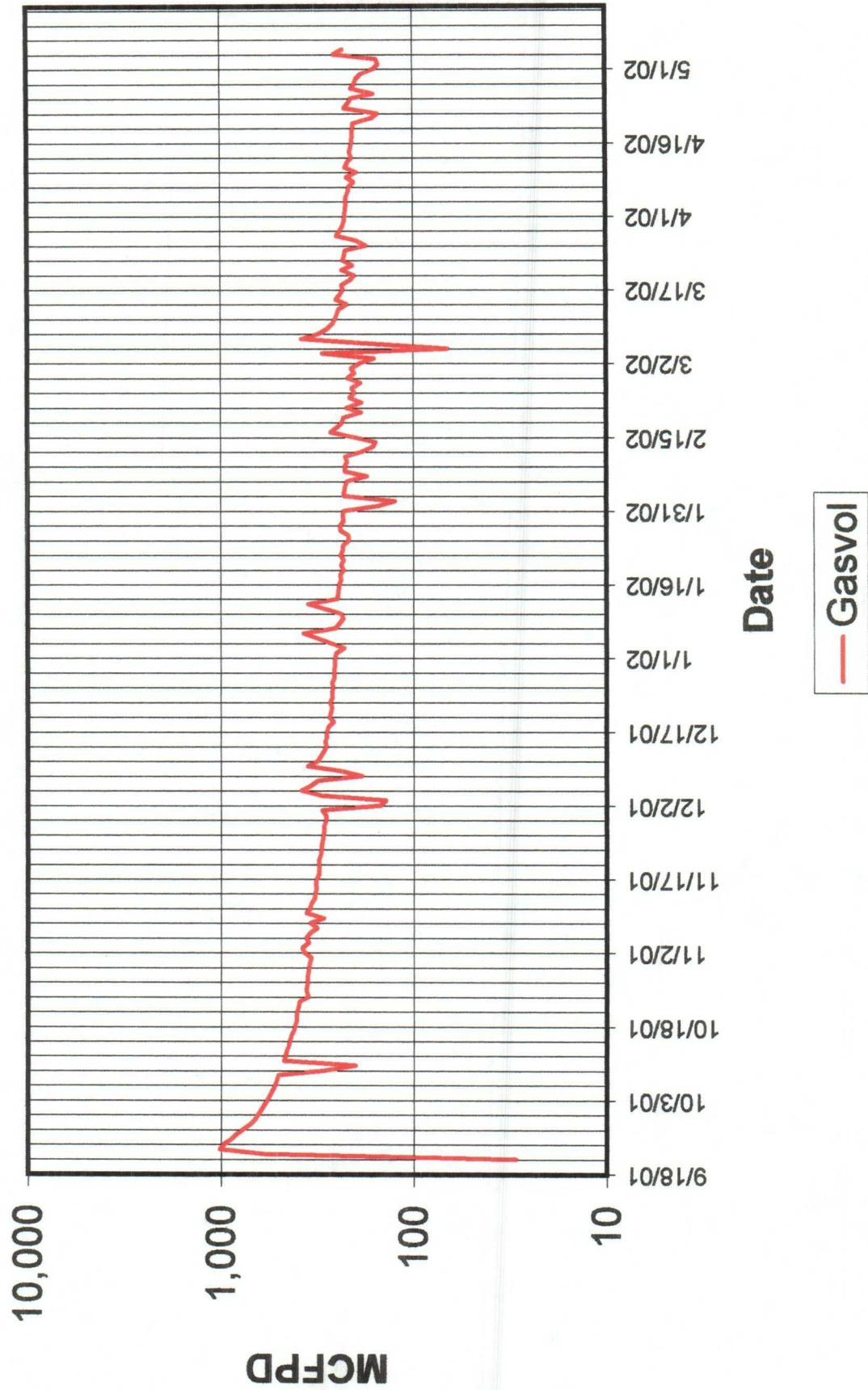
¹¹ Bottom Hole Location If Different From Surface

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 320 E/2		¹³ Joint or Infill I		¹⁴ Consolidation Code		¹⁵ Order No.			

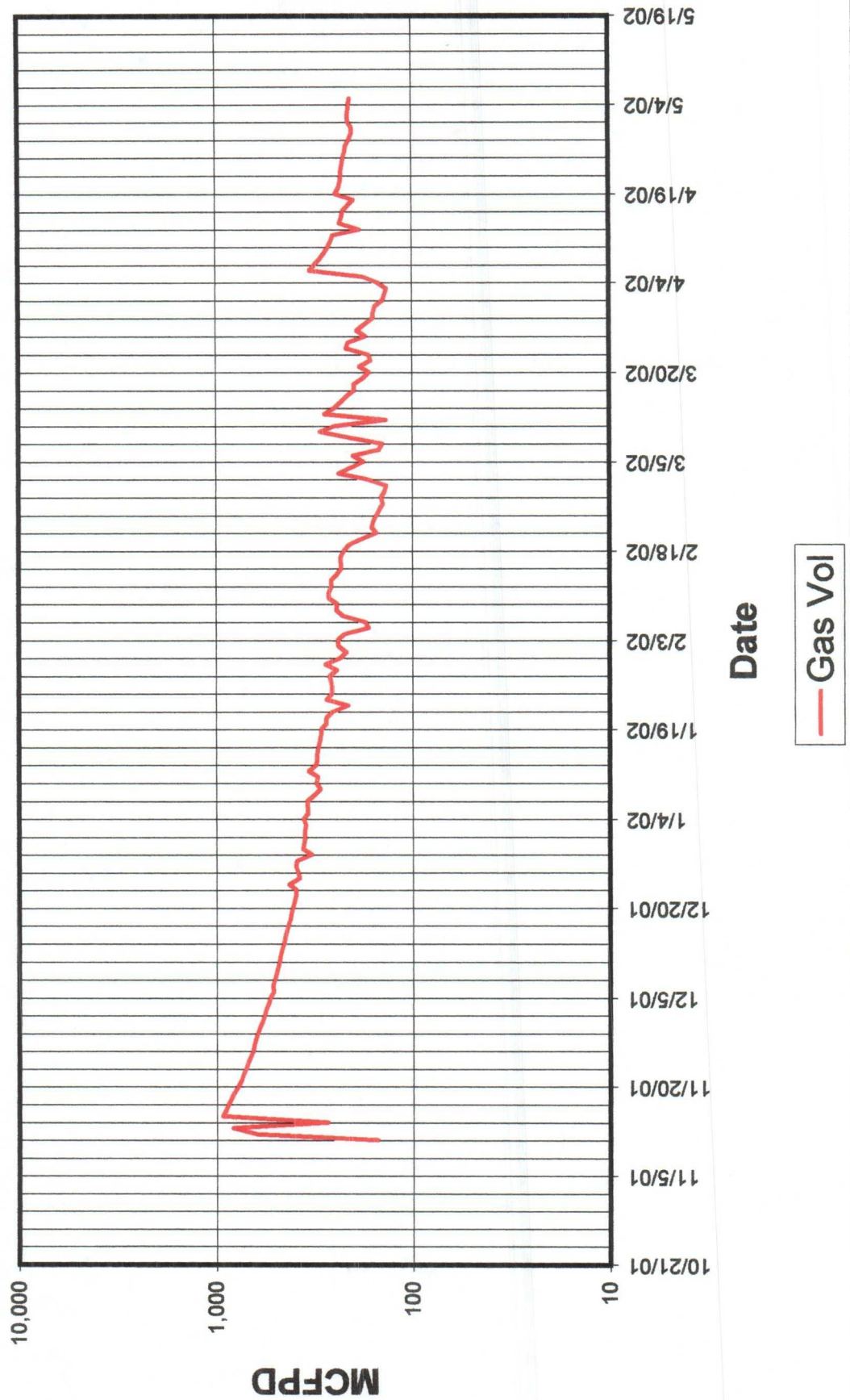
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	LOT 1	QTR. CORNER FD 2 1/2" BC BLM 1955	N 87°52'39" W 2589.6'	SEC. CORNER FD 2 1/2" BC BLM 1955	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature <u>Jeffrey W Patton</u> Printed Name <u>JEFFREY W PATTON</u> Title <u>DILLON EXPLORER</u> Date <u>4-11-02</u>
	LOT 2		LAT: 38°34'49" N. LONG: 107°42'57" W.		
	LOT 3				
	LOT 4				
18					18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes or actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey <u>14827</u> Signature and Seal of Professional Surveyor:  Certificate Number <u>14827</u>

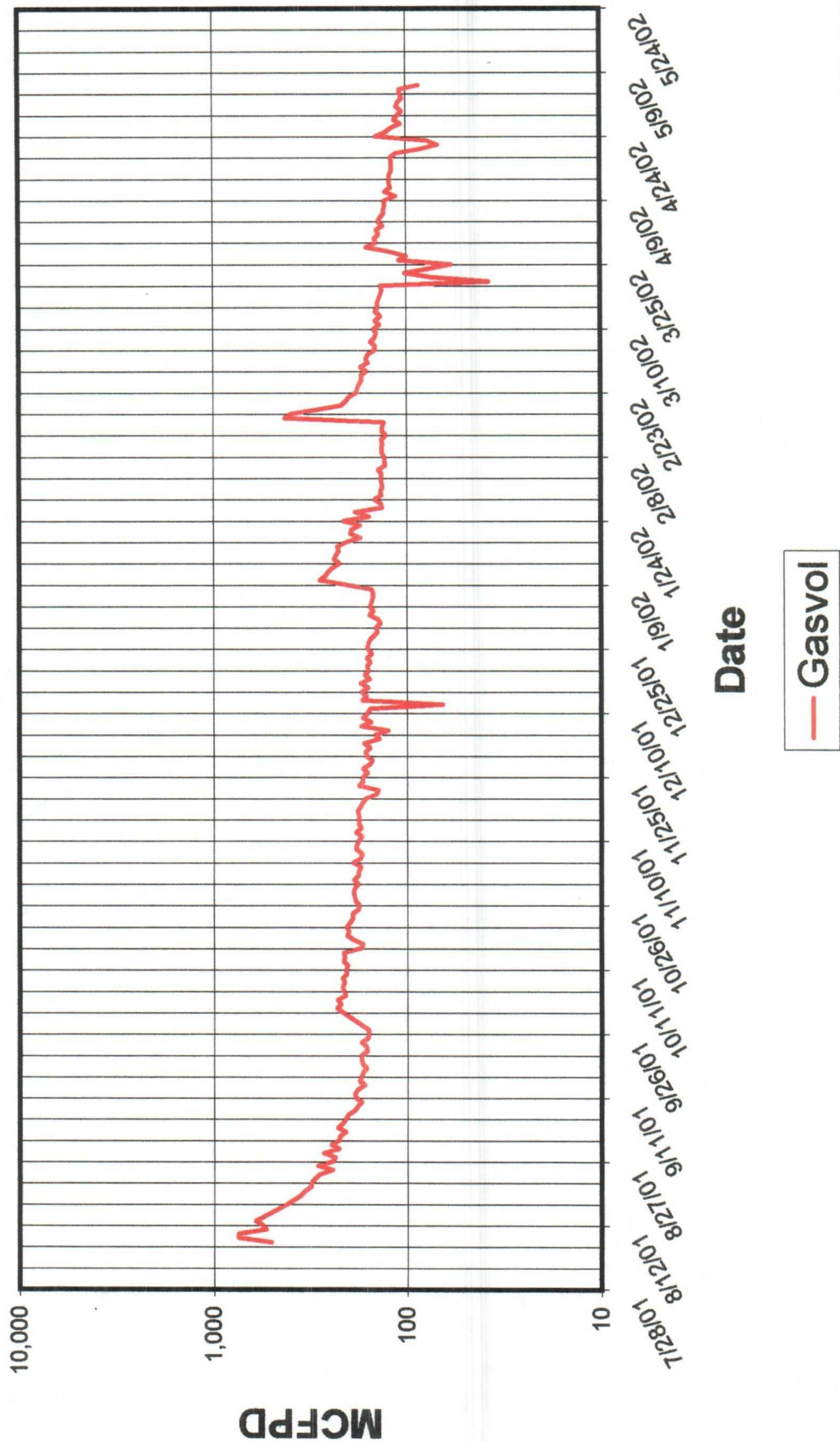
Bolack C LS #15A
Chacra



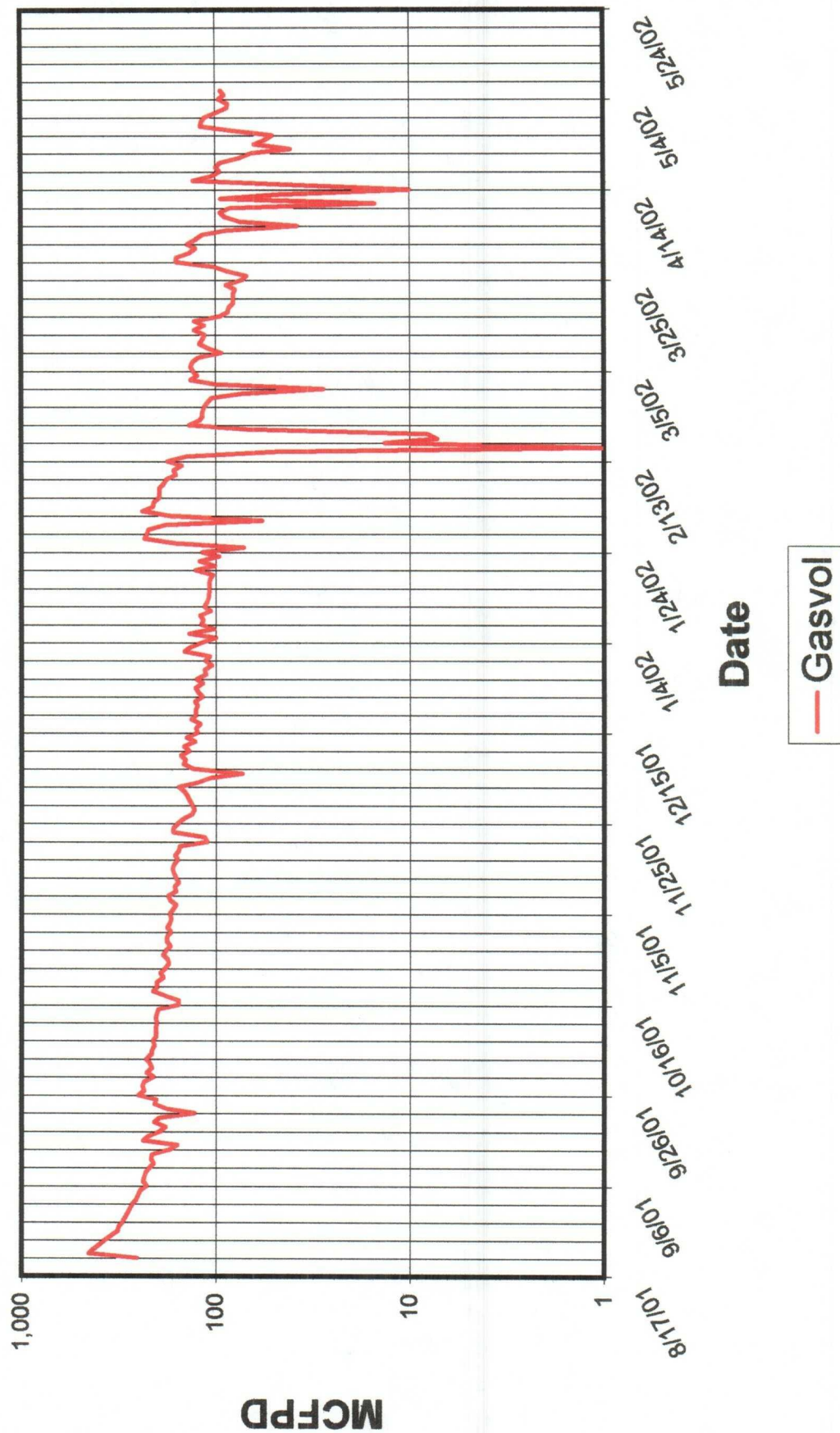
Bolack C LS #12A
Chacra



Bolack C #11B
Mesaverde



**Bolack C #10B
Mesaverde**



Florance #66F										
NE/4 Section 18 T-27-N R-8-W										
Lease	Well #	Sec	Twp	Rng	Chacra		Mesaverde		Dakota	
					EUR MMCF	CUM MBO	EUR MMCF	CUM MBO	EUR MMCF	CUM MBO
Florance D LS	9	17	27N	8W	536	0.0				
Florance D LS	17	17	27N	8W	169	0.0				
Florance LS	4A	18	27N	8W	206	0.3				
Florance	66	18	27N	8W	36	0.0				
Navajo Indian B	3	19	27N	8W	352	0.0				
Florance	67	19	27N	8W	481	0.0				
Blanco	25	12	27N	9W	352	0.0				
John Charles	6A	13	27N	9W	160	0.0				
John Charles	8	13	27N	9W	712	0.0				
John Charles	7E	13	27N	9W	599	0.0				
Huerfanito Unit	77	24	27N	9W	191	0.0				
Jernigan	3A	24	27N	9W	437	0.0				
Day B	5	7	27N	8W			1,450	8.3		
Day B	2	7	27N	8W			1,800	10.3		
Schwerdtfeger A	6M	8	27N	8W			263	0.5		
Schwerdtfeger A	20M	8	27N	8W			1,231	4.8		
Schwerdtfeger A	14	8	27N	8W			1,456	8.5		
Schwerdtfeger A	13	8	27N	8W			1,770	12.8		
Florance D LS	10	17	27N	8W			1,266	5.7		
Florance D LS	9	17	27N	8W			2,656	11.5		
Florance	64	17	27N	8W			1,192	1.3		
Florance	63M	17	27N	8W			746	1.2		
Florance	63E	17	27N	8W			618	0.7		
Florance	4	18	27N	8W			2,685	15.0		
Florance	4A	18	27N	8W			636	1.5		
Florance D LS	11	18	27N	8W			2,139	9.0		
Florance	66	18	27N	8W			864	1.4		
Navajo B	6M	19	27N	8W			650	4.2		
Florance	67	19	27N	8W			776	0.5		
Florance D LS	12	19	27N	8W			2,898	16.2		
Navajo Indian B	3	19	27N	8W			950	1.6		
Florance D LS	4	20	27N	8W			1,084	0.5		
Florance	62	20	27N	8W			1,023	1.9		
Florance	62M	20	27N	8W			264	0.7		
Florance D LS	13	20	27N	8W			2,089	11.2		
Florance D LS	4A	20	27N	8W			141	1.4		
Blanco	2A	12	27N	9W			723	2.5		
Blanco	2	12	27N	9W			3,046	13.5		
Blanco	4	12	27N	9W			2,828	15.0		
Blanco	4A	12	27N	9W			590	0.1		
John Charles	7B	13	27N	9W			630	0.2		
John Charles	7	13	27N	9W			3,024	13.1		
John Charles	7A	13	27N	9W			1,328	5.2		
John Charles	6	13	27N	9W			3,005	15.9		
John Charles	6A	13	27N	9W			765	4.9		
Jernigan	3	24	27N	9W			584	10.0		
Huerfanito Unit	77A	24	27N	9W			478	2.5		
Huerfanito Unit	77	24	27N	9W			382	2.9		
Jernigan	3A	24	27N	9W			215	2.9		
Day B	4	7	27N	8W					1,078	4.7
Day B	3	7	27N	8W					1,127	9.9
Schwerdtfeger A	6M	8	27N	8W					732	4.1
Schwerdtfeger A	6	8	27N	8W					1,676	15.9
Schwerdtfeger A	20M	8	27N	8W					286	3.2
Schwerdtfeger A	20	8	27N	8W					1,775	14.3
Florance	64	17	27N	8W					528	7.2
Florance	63M	17	27N	8W					1,211	15.4
Florance	63E	17	27N	8W					755	5.5
Florance	65	18	27N	8W					1,702	9.1
Florance	66	18	27N	8W					2,270	26.1
Florance	66E	18	27N	8W					625	3.1
Navajo B	6	19	27N	8W					620	4.1

Florance #66F										
NE/4 Section 18 T-27-N R-8-W										
Lease	Well #	Sec	Twp	Rng	Chacra		Mesaverde		Dakota	
					EUR MMCF	CUM MBO	EUR MMCF	CUM MBO	EUR MMCF	CUM MBO
Navajo B	6M	19	27N	8W					270	1.5
Florance	67	19	27N	8W					459	8.5
Florance	68	20	27N	8W					482	5.3
Florance	62	20	27N	8W					1,062	23.2
Florance	62M	20	27N	8W					737	1.8
Charles et al	2E	12	27N	9W					588	3.6
Charles et al	1E	12	27N	9W					605	1.7
Charles et al	2	12	27N	9W					941	4.6
Charles et al	1	12	27N	9W					675	3.2
Ramenta et al	1	13	27N	9W					800	6.6
John Charles	7	13	27N	9W					475	5.2
John Charles	7E	13	27N	9W					781	4.0
Ramenta et al	1E	13	27N	9W					375	1.5
Huerfanito Unit	97	24	27N	9W					3,331	38.8
Jernigan	3	24	27N	9W					2,545	26.2
Totals					4,231	0.3	48,245	219.4	28,511	258.3
Average					353	0.0	1,304	5.9	1,018	9.2

Proposed Allocations

	Gas %	Oil %
Chacra	13%	0%
Mesaverde	49%	39%
Dakota	38%	61%

ESTIMATED BOTTOM HOLE PRESSURE CALCULATIONS

1. Otero Chacra

Bolack C LS #12A
Sec 29, T27N, R8W
Completed 11/7/01

11/10/01 SITP 0 psig. Fluid level @ 1,400' from surface.
Perfs from 3,726' - 3,734'

$$\text{BHP} = (3,734' - 1,400') \times (0.438 \text{ psi/ft})$$

$$\text{BHP} = 1,022 \text{ psig}$$

Bolack C LS #15A
Sec 33, T27N, R8W
Completed 8/22/01

8/24/01 SITP 0 psig. Fluid level @ 2,000' from surface.
Perfs from 3,824' - 3,848'

$$\text{BHP} = (3,848' - 2,000') \times (0.438 \text{ psi/ft})$$

$$\text{BHP} = 809 \text{ psig}$$

Average BHP calculation

915 psig

2. Blanco Mesaverde

Bolack C #10B
Sec 28, T27N, R8W
Completed 8/2/01

8/15/01 SITP 0 psig. Fluid level @ 2,200' from surface.
Perfs from 4,462' - 4,621'

$$\text{BHP} = (4,621' - 2,200') \times (0.438 \text{ psi/ft})$$

$$\text{BHP} = 1,060 \text{ psig}$$

Bolack C #11B
Sec 28, T27N, R8W
Completed 7/25/01

7/31/01 SITP 0 psig. Fluid level @ 2,100' from surface.
Perfs from 4,530' - 4,691'

$$\text{BHP} = (4,691' - 2,100') \times (0.438 \text{ psi/ft})$$

$$\text{BHP} = 1,135 \text{ psig}$$

Average BHP calculation

1,098 psig

3. Basin Dakota

Ramenta et al #1E
Sec 13, T27N, R9W
Completed 1/9/85

4/9/90 Well was SI for 166 hrs. Ran a wireline static
gradient profile to 6,527'. SITP 654 psig & SICP 669 psig.
Perfs from 6,458' - 6,596'

$$\text{BHP} = 780 \text{ psig}$$

Information on Dakota obtained from offset operator.

FLOWING GRADIENT TRAVERSE

MOBIL EXPLORATION & PRODUCING U.S., INC.

P. O. BOX 185

BLOOMFIELD, NEW MEXICO

DATE 4-09-90

WELL NAME: RAMENTA ETAL WELL NO. 1E

FORMATION: DAKOTA

FIELD: BASIN DAKOTA

COUNTY: SAN JUAN

STATE: NEW MEXICO

ELEVATION: 5990' KB

TOTAL DEPTH: PSTD 6666'

PERFORATIONS: 6458' TO 6596'

TUBING SIZE: 2-3/8" TO 6457'

CASING SIZE: 5-1/2" TO 6716'

PACKER:

CASING PRESSURE: 689 DWT

TUBING PRESSURE: 654 DWT

OIL LEVEL: NONE

WATER LEVEL: APPROX. 6500'

TEMPERATURE: 194 DEGREES @ 6641'

AMERADA ELEMENT NUMBER: 64656

RANGE: 0-4000

INDIVIDUAL WELL DATA SHEET

WELL STATUS: SHUT-IN 166 HOURS

=====

STATIC GRADIENT TRAVERSE

DEPTH IN FEET	PRESSURE PSIG	GRADIENT PSI/FOOT
0	654	
2000	690	0.018
4000	727	0.019
6000	764	0.019
6127	766	0.016
6327	770	0.020
6527 MP	779	0.045

WIRELINE TD @ 6641'

SHUT-IN 04-02-90 @ 13:30

H & H WIRELINE SERVICE

P. O. BOX 899

FLORA VISTA, N. MEX. 87415

OPERATOR: ARCHIE HUGHES

UNIT NO. T-6

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Emergen Resources
2198 Bloomfield Hwy.
Farmington NM 87401

7001 1940 0003 1553 9961

PS Form 3811, August 2001

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

- ☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

Signature bbf
DHC xception 102595-01-M-0381

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Burlington Resources
Box 4289
Farmington NM 87499

2 7001 1940 0003 1553 9954

PS Form 3811, August 2001

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

- ☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

Signature bbf
DHC xception 102595-01-M-0381

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Sam Star Oil & Gas Co.
1111 Bagby St, 36th floor
Houston, TX 77002

2 7001 1940 0003 1553 9978

PS Form 3811, August 2001

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

- ☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

Signature bbf
DHC xception 102595-01-M-0381

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

CERTIFIED MAIL

7001 1940 0003 1553 9954
7001 1940 0003 1553 9954

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark
Here

Sent To *BR*

Street, Apt. No. or PO Box No. *Box 4289*

City, State, ZIP+4 *Albuquerque NM 87449*

PS Form 3800, January 2001

Sharon L. F.
DHC xception

See Reverse for Instructions

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

CERTIFIED MAIL

7001 1940 0003 1553 9978
7001 1940 0003 1553 9978

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark
Here

Sent To

For Mr. & Mrs. J. L. Baby
Street, Apt. No. or PO Box No. *1111 Baby St 36th St.*
City, State, ZIP+4 *Albuquerque NM 87102*

PS Form 3800, January 2001

See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

CERTIFIED MAIL

7001 1940 0003 1553 9961
7001 1940 0003 1553 9961

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE