

ABOVE THIS LINE FOR DIVISION USE ONLY

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



2234

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]

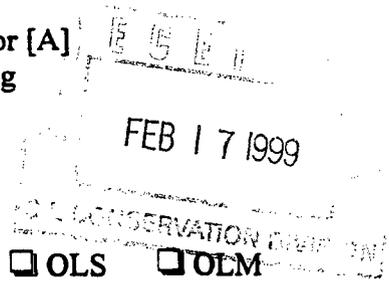
[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [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 *[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 87505-6429

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

APPROVAL PROCESS :

Administrative Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

YES NO

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator **HANCOCK** Address **5A F 27-28N-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 7076 API NO. 30-45-2637400 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	Chacra - 82329		Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	4011' - 4228'		5540'-5782-, 5327'-5506'
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) Est. a. 305	a.	a. 559
	(Original) Est. b. 1059	b.	b. 856
6. Oil Gravity (°API) or Gas BTU Content	BTU 1178		BTU 1313
7. Producing or Shut-In?	Not yet completed		Producing
Production Marginal? (yes or no)	yes		Yes
* If Shut-In and oil/gas/water rates of last production	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
<small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small>			
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: n/a Rates: n/a	Date: Rates:	Date: n/a Rates: 102 MCF/D
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 No
11. 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 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 Mike Pippin TITLE Production Engineer DATE 02-12-99

TYPE OR PRINT NAME Mike Pippin TELEPHONE NO. (505) 326-9700

NEW 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.

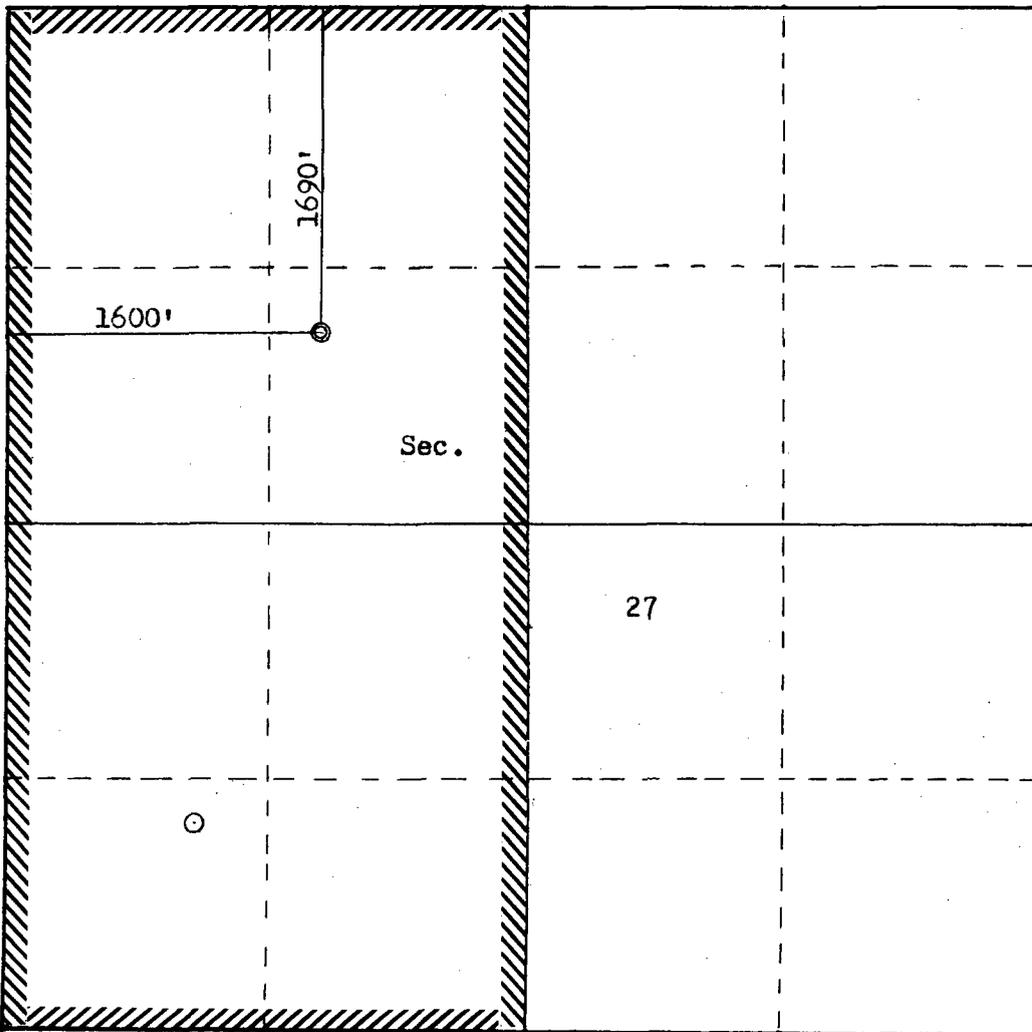
Operator EL PASO NATURAL GAS COMPANY		Lease HANCOCK (SF 077107A)		Well No. 5A
Unit Letter F	Section 27	Township 28N	Range 9W	County San Juan
Actual Footage Location of Well: 1690 feet from the North line and 1600 feet from the West line				
Ground Level Elev: 6828	Producing Formation Mesa Verde	Pool Blanco	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
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.

Name
Drilling Clerk

Position
El Paso Natural Gas

Company

Date

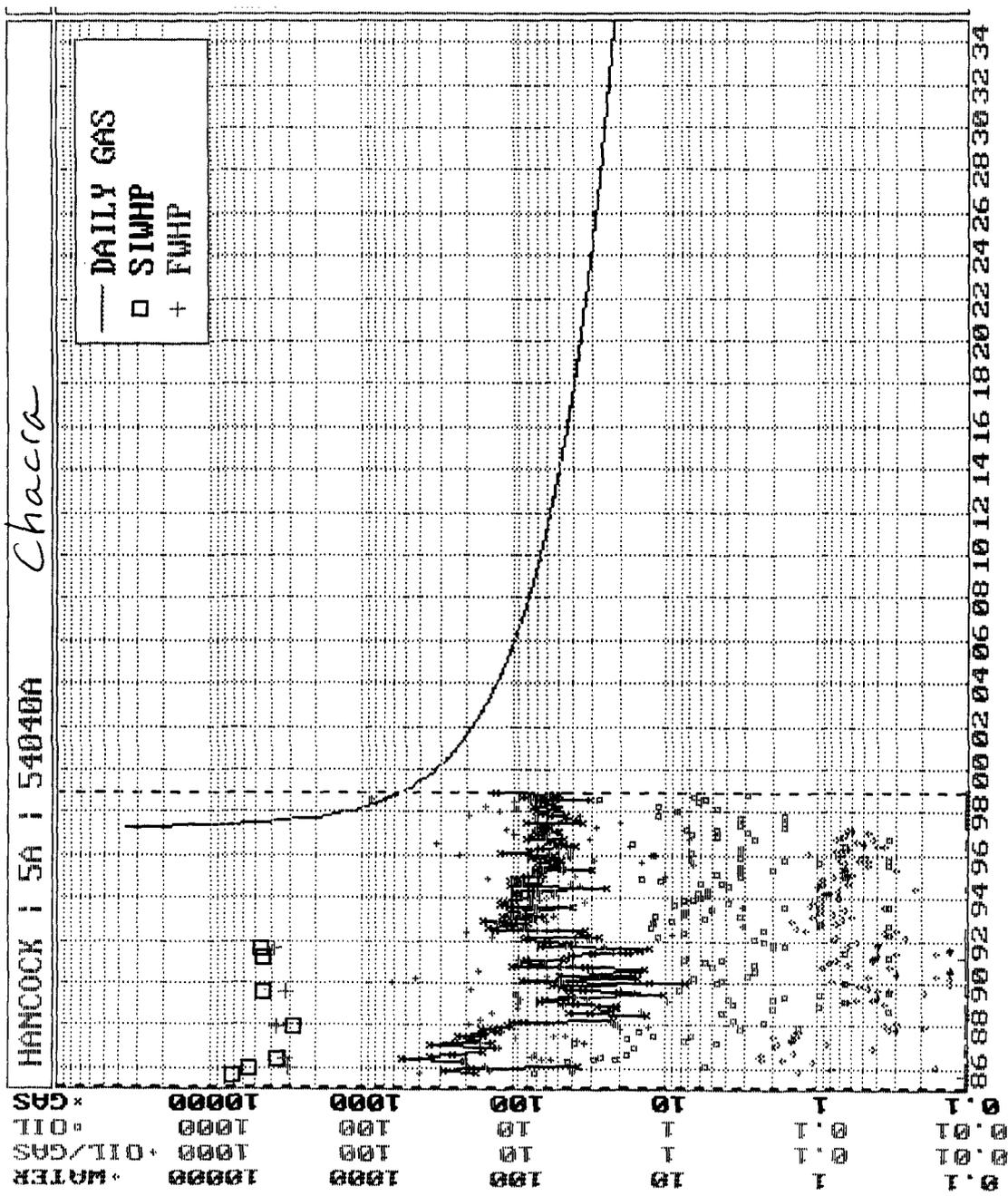
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
April 15, 1985

Registered Professional Engineer and Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. **1050**



10000 • WATER
 1000 • OIL/GAS
 100 • OIL
 10000 • GAS
 1000
 100
 10
 1
 0.1
 0.01
 0.001
 0.0001
 0.00001

86 88 90 92 94 96 98 00 02 04 06 08 10 12 14 16 18 20 22 24 26 28 30 32 34

Page No.: 1

Print Time: Mon Feb 01 14:34:37 1999

Property ID: 7749

Property Name: LACKEY | 9 | 45096A-1

Table Name: K:\ARIES\RR99PDP\TEST.DBF

OFFSET-
CHACKA

--DATE--	PHA M	FWHP-	M FBHP-	M SIWHP	M SIBHP
■■■■■■■■■■	■■■	■■■Psi■■■	■■■Psi■■■	■■■Psi■■■	■■■Psi■■■
12/17/74				962.0	
01/03/75		0.0		975.0	1064.0
04/11/75		127.0		665.0	723.0
04/14/76		188.0		372.0	403.0
06/28/77		112.0		342.0	370.0
04/12/93				280.0	

HANCOCK #5A
 Bottom Hole Pressures
 Flowing and Static BHP
 Cullender And Smith Method
 2/1/99

Mesaverde	CHACRA																																																
<u>MV-Current</u>	<u>CH-Current</u>																																																
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DP NO: 54040A

DATE: 981112 (YYMMDD FORMAT)

HANCOCK

5A SCROLL FORWARD BY DATE: _

S

E	DATE	HOURS	-OIL PRODN-	-GAS PRODN-	-WATER PRODN-
L	PRODUCED	ON	(BOPD	(MCFD	(BWPD
			BOPM)	MCFM)	BWPM)
_	11/12/98	0.0	0.00	109	0.00
_	11/13/98	0.0	0.00	129	0.00
_	11/14/98	0.0	0.00	150	0.00
_	11/15/98	0.0	0.00	127	0.00
_	11/16/98	0.0	0.00	54	0.00
_	11/17/98	0.0	0.00	102	0.00
_	11/18/98	0.0	0.00	30	0.00
_	11/19/98	0.0	0.00	130	0.00
_	11/20/98	0.0	0.00	132	0.00
_	11/21/98	0.0	0.00	141	0.00
_	11/22/98	0.0	0.00	125	0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF6=NRI PF10=BROWSE MENU PF11=INQ/UPDATE MENU
 PF12=MAIN MENU ENTER=BACKWARDS PF24=HELP

DATE: February 01, 1999

NAME: HANCOCK 5A

FORM: MESAVERDE

LOCATION
UNIT: F
SEC: 27
TWN: 28N
RNG: 9W

<p>11/86 * Lackey B L S 12E 52/266 (98) 0/5</p> <p>6/57 * Lackey B L S 10 4/325 (98) [21] 0/24</p> <p>3/86 * Lackey B L S 12A 79/250 (98) 0/2</p>	<p>10/85 * Hancock 3A 217/591 (98) 3/16</p> <p>[22]</p> <p>6/57 * Storey C L S 6 12/1459 (98) 0/28</p>	<p>10/85 * Hancock 4A 120/716 (98) 0/5</p> <p>[23]</p> <p>5/96 * Lackey 1M 166/109 (98) 0/0</p>	<p>INA * 6/57 Warren A L S 2 0/2702 (97) 0/14</p>
<p>12/52 * Hancock B1 83/1124 (98) 0/0</p> <p>[28] 10/85 * Hancock B 1A 66/327 (98) 0/3</p> <p>7/57 * Michener A L S 4 28/1504 (98) 0/9</p>	<p>10/85 * Storey C L S 7 40/1542 (98) 0/11</p> <p>Hancock 5A 62/377 (98) 0/2</p> <p>[27]</p> <p>3/86 * Storey C L S 7A 31/366 (98) 0/2</p>	<p>11/85 * Lackey 1A 102/772 (98) 0/3</p> <p>7/55 * Hancock A2 163/1496 (98) [26] 0/1</p> <p>3/50 * Lackey 1 89/1179 (98) 0/2</p> <p>10/85 * Hancock A 2A 105/660 (98) 0/4</p>	<p>10/85 * P&A 6/52 * Hancock A1 0/64 (75) 0/0</p>
<p>2/86 * Michener A 7 15/219 (98) 0/1</p> <p>4/57 * Storey C L S 8 35/2570 (98) 0/14</p> <p>[33]</p>	<p>11/85 * Storey C 11A 27/335 (98) 0/2</p> <p>6/58 * Storey C 11 101/1887 (98) 0/17</p> <p>[34]</p> <p>3/86 * Storey C L S 9A 38/277 (98) 0/1</p>	<p>8/95 * Storey C 2M 21/40 (98) 0/0</p> <p>[35]</p> <p>INA * Storey C L S 10R 0/0 (98) 0/0</p> <p>INA * Storey C L S 10 0/2116 (98) 0/12</p>	

T 28
N

R-9-W

LEGEND
COMPLETION DATE *
WELL NAME
MCF/D-CUM(MMF)
BOP/D-CUM(MBO)

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED)

OFFSET - CHACRA

OPR008M1 3706

0008 CHROMATOGRAPH TEST MAIN SCREEN

15:47:22.7 02/01/99

FUNCTION (A,C,D,I) I ** DATA AT TEST PRESSURE UNLESS NOTED **

MP NUMBER 89160 LACKEY 9

EFFECTIVE DATE 19960701

REGION CD 42 SAN JUAN

MP TYPE CODE 10 GAS METER - WELLHEAD SALES

SAMPLE TYPE CODE (GAS,LIQ,BTU) GAS ----- BTU/CF -----

SAMPLE DATE 19951107 --- (AT 14.73 PSIG) --

SAMPLE LINE PRESSURE (PSIG) _____ WET 1157.519 DRY 1178.000

SAMPLE LINE TEMPERATURE (DEG F) _____

TEST DATE _____ ----- BTU/CF -----

TEST PRESSURE (PSIG) _14.730 WET _1157.519 DRY _1178.000

TEST TEMPERATURE (DEG F) 60 VAPOR FACTOR _____

TEST LIFE (MONTHS) _12

TESTER SOURCE BA NUMBER 098795 EL PASO FIELD SERVICES

TEST PURPOSE CODE _____

03=DETAIL SCR	04=MP-NM BRWS	06=MP/DS LST	07=MP/WN LST
11=PREV SCR	12=MAIN MENU		20=NEXT REC
21=REFRESH SCR	22=PREV MENU	24=HELP	PA1=TERMINATE

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED)

mv

OPR008M1 3706

0008 CHROMATOGRAPH TEST MAIN SCREEN

15:46:21.4 02/01/99

FUNCTION (A,C,D,I) I ** DATA AT TEST PRESSURE UNLESS NOTED **

MP NUMBER 95419 HANCOCK 5A

EFFECTIVE DATE 19970301

REGION CD 42 SAN JUAN

MP TYPE CODE 10 GAS METER - WELLHEAD SALES

SAMPLE TYPE CODE (GAS,LIQ,BTU) GAS ----- BTU/CF -----

SAMPLE DATE 19970213 --- (AT 14.73 PSIG) --

SAMPLE LINE PRESSURE (PSIG) _____ WET 1290.172 DRY 1313.000

SAMPLE LINE TEMPERATURE (DEG F) _____

TEST DATE _____ ----- BTU/CF -----

TEST PRESSURE (PSIG) _14.730 WET _1290.172 DRY _1313.000

TEST TEMPERATURE (DEG F) 60 VAPOR FACTOR _____

TEST LIFE (MONTHS) _6

TESTER SOURCE BA NUMBER 098795 EL PASO FIELD SERVICES

TEST PURPOSE CODE _____

03=DETAIL SCR 04=MP-NM BRWS 06=MP/DS LST 07=MP/WN LST

11=PREV SCR 12=MAIN MENU 20=NEXT REC

21=REFRESH SCR 22=PREV MENU 24=HELP PA1=TERMINATE

mv

	MOL %	GPM (AT 14.73)
HYDROGEN	_____	
HELIUM	_____	
NITROGEN	__0.44	
OXYGEN	_____	
HYDROGEN SULFIDE	_____	
CARBON DIOXIDE	__0.58	
METHANE	__74.83	
ETHANE	__13.10	3.5043
PROPANE	__7.10	1.9568
ISO-BUTANE	__0.97	0.3173
N-BUTANE	__1.89	0.5959
ISO-PENTANE	__0.48	0.1756
N-PENTANE	__0.38	0.1376
HEXANE	_____	
HEXANE PLUS	__0.23	0.1003
HEPTANE PLUS	_____	
TOTALS	100.00	6.7878

** DATA AT 14.730 PSIG UNLESS NOTED **

MP NUMBER 95419
EFFECTIVE DATE 19970301

-- GASOLINE CONTENT (GPM) --
26/70 GASOLINE _____
100% PROPANE _____
EXCESS BUTANES _____
TOTAL

----- SPECIFIC GRAVITY -----
CALCULATED _0.7600
MEASURED _____

SULPHUR GRAINS / 100 CU FT _____

03=MAIN SCREEN

24=HELP

PA1=TERMINATE

~~NE~~ OFFSET CHACRA

OPR008M2 3706

0008 CHROMATOGRAPH GAS SAMPLE DETAIL

15:47:46.1 02/01/99

** DATA AT 14.730 PSIG UNLESS NOTED **

	MOL %	GPM (AT 14.73)
HYDROGEN	_____	
HELIUM	_____	
NITROGEN	___0.29	
OXYGEN	_____	
HYDROGEN SULFIDE	_____	
CARBON DIOXIDE	___0.27	
METHANE	___86.86	
ETHANE	___7.03	1.8805
PROPANE	___3.12	0.8599
ISO-BUTANE	___0.50	0.1636
N-BUTANE	___0.83	0.2617
ISO-PENTANE	___0.28	0.1025
N-PENTANE	___0.21	0.0761
HEXANE	_____	
HEXANE PLUS	___0.61	0.2661
HEPTANE PLUS	_____	
TOTALS	100.00	3.6104

MP NUMBER 89160
EFFECTIVE DATE 19960701

-- GASOLINE CONTENT (GPM) --
26/70 GASOLINE _____
100% PROPANE _____
EXCESS BUTANES _____
TOTAL _____

----- SPECIFIC GRAVITY -----
CALCULATED _0.6670
MEASURED _____

SULPHUR GRAINS / 100 CU FT _____

03=MAIN SCREEN

24=HELP

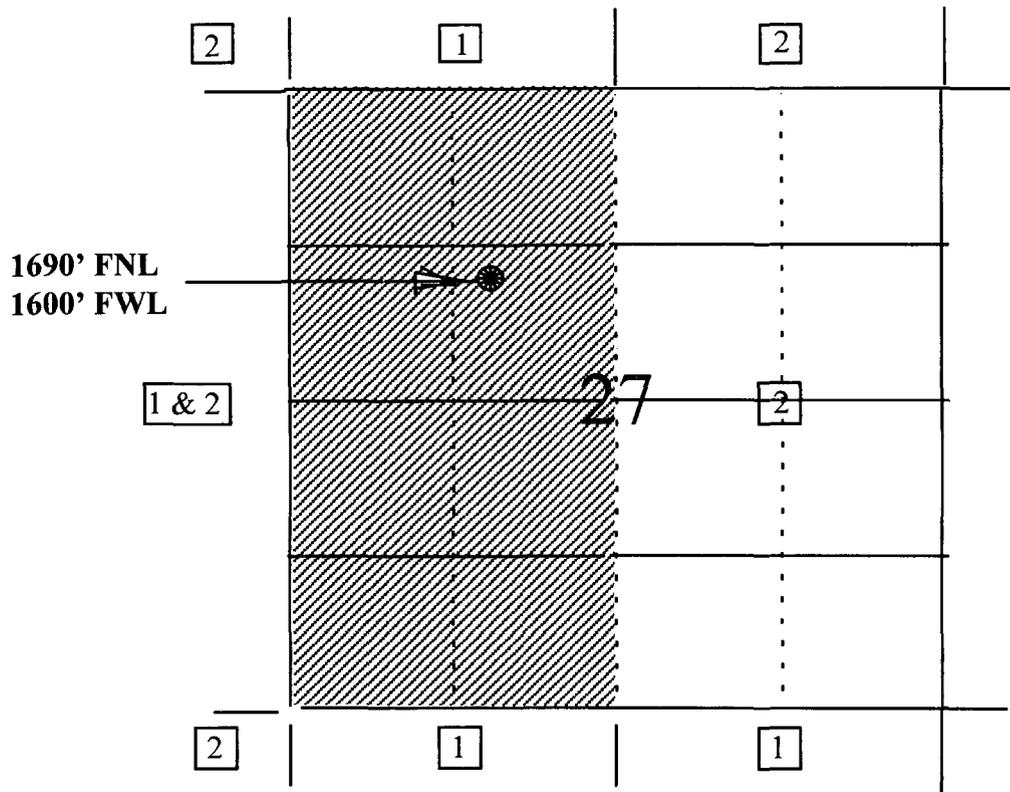
PA1=TERMINATE

BURLINGTON RESOURCES OIL AND GAS COMPANY

**Hancock #5A
OFFSET OPERATOR \ OWNER PLAT
Downhole Commingle**

Chacra / Mesaverde Formations Well

Township 28 North, Range 9 West



- 1) Burlington Resources
- 2) Conoco Inc.
Attn: Lori Thorpe
10 Desta Drive, Suite 100W
Midland, TX 79705-4500

DATE: February 01, 1999

NAME: HANCOCK 5A

FORM: CHACRA

LOCATION

UNIT: F
SEC: 27
TWN: 28N
RNG: 9W

<p>[21] 3/86 Lackey B L S 12A 14/71 (98) 0/0</p>	<p>[22]</p>	<p>[23] 5/96 Lackey 1M 18/14 (98) 0/0</p>
<p>[28] 6/75 HANCOCK B #12 26/339 (98) 0/0</p>	<p>[27] 1/75 HANCOCK 5A Lackey #8 0/226 (98) 0/0</p>	<p>[26] 1/75 Lackey #7 0/192 (98) 0/0 9/70 Lackey #2 8/201 (98) 0/0 6/75 HANCOCK A #8 10/187 (98) 0/0</p>
<p>[33] 2/86 MICHENER A #7 21/168 (98) 0/0</p>	<p>[34] 3/75 Lackey #9 19/328 (98) 0/0 5/74 Lackey #6 3/13 (98) 0/0</p>	<p>[35] 8/95 STOREY C 2M 38/59 (98) 0/0 3/75 HANCOCK A #7 11/154 (98) 0/0 3/75 HANCOCK A #10 24/346 (98) 0/0</p>

T 28
N

R-9-W

LEGEND

COMPLETION DATE	*
WELL NAME	*
MCF/D-CUM(MMF)	*
BOP/D-CUM(MBO)	*