A (West) — **A' (East)**

120'	290'	1000'	1330'	1865'

Energen Langlie Lynn Queen Unit #1 Sec. 22-T23S-R36E KB: 3399'	Energen Langlie Lynn Queen #23 Sec. 22-T23S-R36E KB: 3399'	Black River Corp. El Paso State 'J' #1 Sec. 22-T23S-R36E KB: 3404'	Energen Langlie Lynn Queen Unit #2 Sec. 22-T23S-R36E KB: 3391'	Energen Langlie Lynn Queen Unit #3 Sec. 23-T23S-R36E KB: 3381'	Energen Langlie Lynn Queen Unit #7 Sec. 23-T23S-R36E KB: 3385' *Grackle #6 State 'A'* *Definition Well*

DATUM: +400

Top Yates

Top Seven Rivers

Top Queen

Top Primrose

3000 3100 3200 3300 3400 3500 3600 3700

Perf: 3,045'-3,538'

PERF: 3623'-3740'
200 GAL. ACID
SF 36,000 GAL. ~~WTR~~ oil
+
54,000 #

PERF: 3626'-3798'
3500 GAL. ACID
SWB: 24 BFPH (100% WTR.)

Completion: July 1979
IPF: 25 MCFGPD
3/4" CK @ 110#

PERF: 3590'-3732'
250 GAL. ACID
SF 27,000 GAL. ~~WTR~~ oil
+
1.5 ppg sand

PERF: 3536'-3672'
500 GAL. ACID
SF 20,000 GAL. oil
30,000 #SD

TOP 3448'

100' ABOVE QUEEN

UNITIZED INTERVAL

Top Queen 3548'

BASE 3710'

3500' - 3575'
DOLO SSO

OWWO 1999
PERF: 3510' - 3600'
4500 GAL. ACID
SWB 6 BF/HR (10% OIL)

3575' - 3650'
DOLO & SD SSO

PERF: 3608' -365'
750 GAL. ACID oil
SF 20,000 GAL.
30,000 #SD

3650' - 3725'
DOLO & SD SSO

3725' - 3800'
DOLO & SD SSO

Completion: September 1960
IPF: 153 BOPD & 104 BW
16/64" CK @ 590#
GOR: 3563:1 GTY: 34.6 DEG

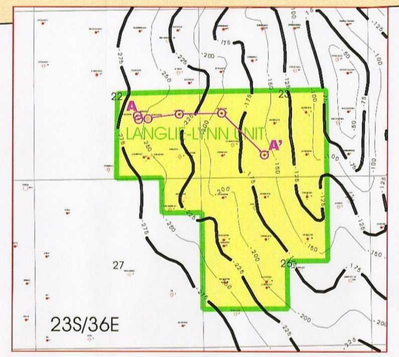
COMP: July 2000
Open Well: April 2002
FLW: 0 BOPD & 0 BWPF & 3 MCFPD
18/64" CK @ 24#

Completion: March 1960
IPF: 141 BOPD & 35 BW
3/4" CK @ 390#
GOR: 3055:1 GTY: 33 DEG

Completion: October 1960
IPF: 354 BOPD
20/64" CK @ 300#
GOR: 1240:1 GTY: 35 DEG

COMP: DECEMBER, 1962
IPF: 112 BOPD
24/64" CK @ 240#
GOR:1280:1 GTY: 34 DEG

INDEX MAP
STRUCTURE TOP QUEEN



NMOCD CASE NO. 13,170
DECEMBER 4, 2003
ENERGEN EXHIBIT NO. 4

ENERGEN RESOURCES

LANGLIE LYNN QUEEN UNIT
LANGLIE MATTIX FIELD
LEA COUNTY, NEW MEXICO
STRUCTURAL CROSS SECTION A - A'

DATE: AUGUST, 2003

Vertical Scale 1" = 40'
GEOLOGY: D. W. CROMWELL