



**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

September 11, 1997

Burlington Resources
P. O. Box 4289
Farmington, NM 87499-4289
Attention: Peggy Bradfield

Administrative Order TX-273

Dear Ms. Bradfield:

Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107 (j) for the below-named wells.

Pursuant to the authority granted me by Rule 107 (d) (4), you are hereby authorized to make tubingless completions in the following wells:

Well Name, Number and Location:

Newsom A Well No. 2, API No. 30-045-05996, Unit N, Section 4, Township 26 North, Range 8 West, NMPM, San Juan County, New Mexico.

McManus Well No. 5, API No. 30-045-05537, Unit O, Section 4, Township 25 North, Range 8 West, NMPM, San Juan County, New Mexico.

Cornell Well No. 6, API No. 30-045-08615, Unit C, Section 11, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico.

Ballard Well No. 9, API No. 30-045-05824, Unit O, Section 15, Township 26 North, Range 9 West, NMPM, San Juan County, New Mexico.

Albright Well No. 1, API No. 30-045-08210, Unit M, Section 15, Township 29 North, Range 10 West, NMPM, San Juan County, New Mexico.

Zachry Well No. 3, API No. 30-045-13361, Unit P, Section 35, Township 29 North, Range 10 West, NMPM, San Juan County, New Mexico.

PV2V2005730740

Zachry Well No. 7, API No. 30-045-07625, Unit M, Section 34, Township 29 North, Range 10 West, NMPM, San Juan County, New Mexico.

Congress Well No. 3, API No. 30-045-07618, Unit M, Section 35, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico.

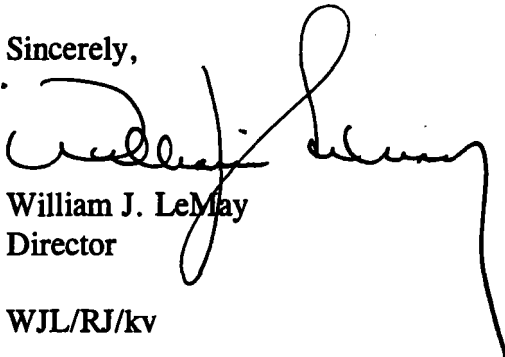
Walker SCR Well No. 1, API No. 30-045-08823, Unit G, Section 3, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico.

Conditions:

The operator shall place adequate cement prior to running 3 ½" casing, or alternatively at the time of plugging and abandonment to insure that the Ojo Alamo Formation is completely sealed off with cement. The methodology to be employed shall be approved by the Division's Aztec office prior to commencement of any remedial work.

The Division reserves the right to rescind this authority in the event that waste appears to be resulting therefrom.

Sincerely,



William J. LeMay
Director

WJL/RJ/kv

cc: Oil Conservation Division - Aztec

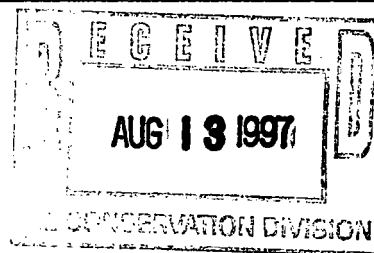
BURLINGTON RESOURCES

SAN JUAN DIVISION

9 Wells

August 12, 1997

New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505



Att: Mr. Roy Johnson

Dear Mr. Johnson:

This is an application for variance to Rule 107 Section J. We intend to workover and drill additional hole in the following wells in the Pictured Cliffs formation, run 3 1/2" casing and cement, and run no tubing.

- | | | |
|---------------|------|---|
| - Newsom A #2 | with | N- SW Section 4, T-26-N, R-8-W |
| - McManus #5 | .. | O- SE Section 4, T-25-N, R-8-W |
| - Cornell #6 | .. | B- NE Section 11, T-29-N, R-12-W |
| - Ballard #9 | .. | O- SE Section 15, T-26-N, R-9-W |
| - Albright #1 | .. | M- SW Section 15, T-29-N, R-10-W |
| - Zachry #3 | .. | P- SE Section 35, T-29-N, R-10-W |
| - Zachry #7 | .. | M- SW Section 34, T-29-N, R-10-W |

*No Cement
Across Oil Allow*

In addition, we intend to workover the following Pictured Cliffs wells which currently have 3 1/2" casing. We will stimulate and fracture treat these wells, and will run no tubing back in the wells.

- | | |
|-----------------|---|
| - Congress #3 | M- SW Section 35, T-29-N, R-11-W |
| - Walker SRC #1 | G- NE Section 3, T-29-N, R-12-W |

These tubingless completions are desirable as they allow Burlington to economically produce reserves from the tight, low pressure Pictured Cliffs formation. Significant cost savings are realized using this method. The 3 1/2" casing string will allow the wells to produce at a higher rate than can be realized through smaller tubulars, and also carry less risk during any subsequent workover operations.

All the listed wells meet the following criteria:

- are in proven fields
- are less than 5000' total depth
- do not have corrosive or pressure problems
- are not dual completions
- will not produce any liquids or condensate (dry gas only)

Attached is a pertinent data sheet and wellbore schematic for each well. Please let me know if you require any additional information for these wells.

Sincerely,

Peggy Bradfield
Regulatory/Compliance Administrator
xc: NMOCD - Aztec District Office

NEWSOM A #2
Pertinent Data Sheet

Location: 890' FSL & 1560' FWL, Unit N, Section 4, T26N, R8W, San Juan County, New Mexico

Latitude: 36-30-40

Longitude: 107-41-27

Field: Ballard PC

Elevation: 6361' GL
6369' KB

TD: 2335'
PBTD: 2335'

Spud Date: 1/8/55

Compl Date: 1/14/55

DP #: 32363
Lease: FPNM9336220
GWI: 100.00%
NRI: 84.50%
Prop#: 071214500

Initial Potential: AOF =925 MCF/D, SICP = 700 psi

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
13-3/4" est	9-5/8"	36# ?	102'	200 sx.	Surf @ 75% Eff.
8-3/4" est	5-1/2"	15.5# ?	2233'	150 sx.	1829' @ 75% Eff.
4-3/4"	OH		2233'-2335'		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>
1"	1.7#?	2292'	≈ 109

Formation Tops:

Ojo Alamo:	1533'
Kirtland Shale:	1570'
Fruitland:	2002'
Pictured Cliffs:	2232'

Logging Record: None

Stimulation: SOF w/ 10.2K# sand, 12.5K gal wtr, OH 2233-2335

Workover History: NONE

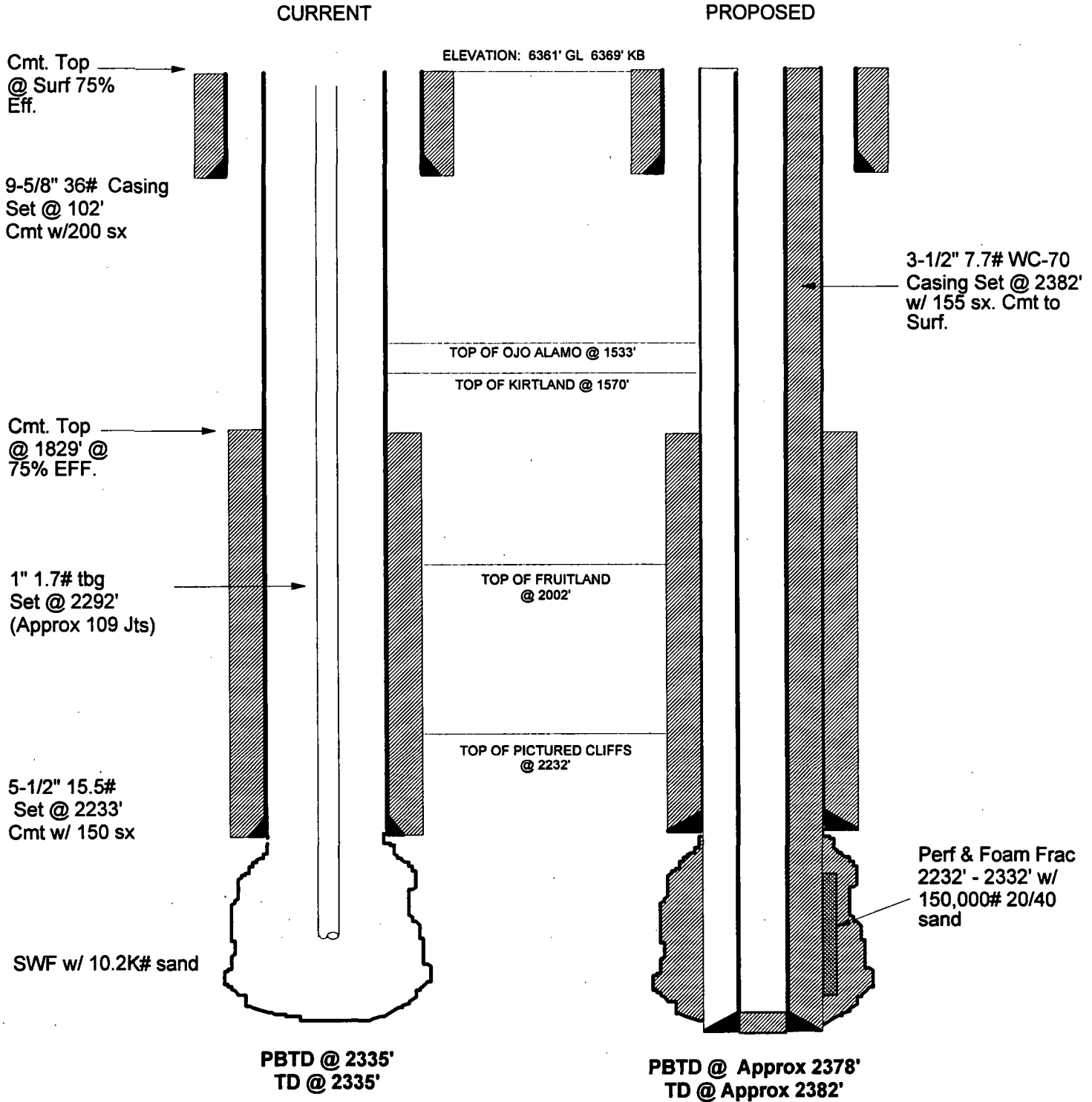
Production History: 5/97 PC capacity: 19 MCF/D. 5/97 PC cum: 702 MMCF.

Pipeline: WFS

Newsom A #2

Section 4N, T-26-N, R-8-W
San Juan County, NM

BALLARD PICTURED CLIFFS WELLBORE SCHEMATIC



McMANUS #5
Pertinent Data Sheet

Location: 1300' FSL & 1340' FEL, Unit O, Section 4, T25N, R8W, San Juan County, New Mexico

Latitude: 36-25-33

Longitude: 107-40-55

Field: Ballard PC

Elevation: 6562' GL
6572' KB

TD: 2213'
PBTD: 2213'

Spud Date: 9/24/55

Compl Date: 12/16/55

DP #: 50918A
Lease: FPNM489401
GWl: 100.00%
NRI: 82.00%
Prop#: 012658300

Initial Potential: 3/4" C.V. = 2595 MCF/D, SICP = 635 psi

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
12-1/4" est	8-5/8"	24# J-55	91'	80 sx.	Surf-Circ
7-7/8" est	5-1/2"	14# J-55	2175'	100 sx.	1586' @ 75% Eff.
4-3/4"	OH		2175'-2213'		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>
1"	1.7# ?	2188'	≈ 104

Formation Tops:

Ojo Alamo:	1354'
Kirtland Shale:	1511'
Fruitland:	1870'
Pictured Cliffs:	2147'

Logging Record: None

Stimulation: SWF w/ 30K# sand, 20.2K gal wtr

Workover History: NONE

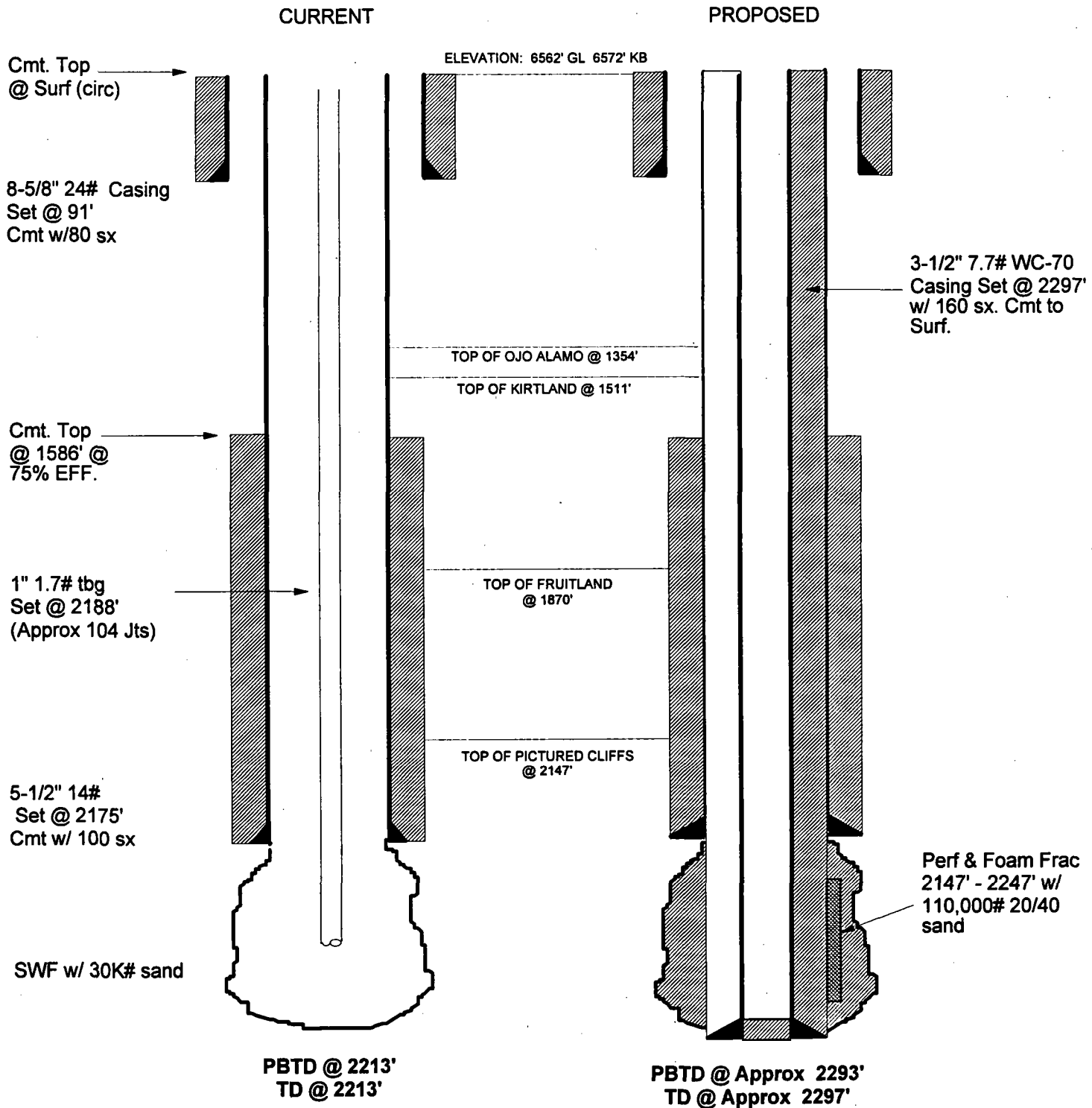
Production History: 5/97 PC capacity: 8 MCF/D. 5/97 PC cum: 794 MMCF.

Pipeline: EPNG

McManus #5

Section 4-0, T-25-N, R-8-W
San Juan County, NM

BALLARD PICTURED CLIFFS WELLBORE SCHEMATIC



Cornell #6
Pertinent Data Sheet

Location: 790' FNL & 1850' FWL, Unit C, Section 11, T29N, R12W, San Juan County, New Mexico

Latitude: 36-44-43

Longitude: 108-04-14

Field: Fulcher Kutz PC

Elevation: 5727' GL
5737' KB

TD: 1863'

PBTD: 1863'

Spud Date: 11/7/55

Compl Date: 11/17/55

DP #: 49477A

Lease: FPNM4790300

GWl: 100.00%

NRI: 71.0313%

Prop#: 012650800

Initial Potential: AOF = 1316 MCF/D, SICP = 251 psi

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
12-1/4" est	8-5/8"	24# ?	97'	70 sx.	Surf @ 75% Eff.
7-7/8" est	5-1/2"	14# ?	1826'	100 sx.	1237' @ 75% Eff.
e 4-3/4"	OH		1826-1863'		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>
1"	1.7# ?	1825'	≈ 87

Formation Tops:

Ojo Alamo:	473'
Kirtland Shale:	614'
Fruitland:	1480'
Pictured Cliffs:	1827'

Logging Record: None

Stimulation: SWF w/ 15K# sand, 10K gal wtr, OH 1826-1863

Workover History: NONE

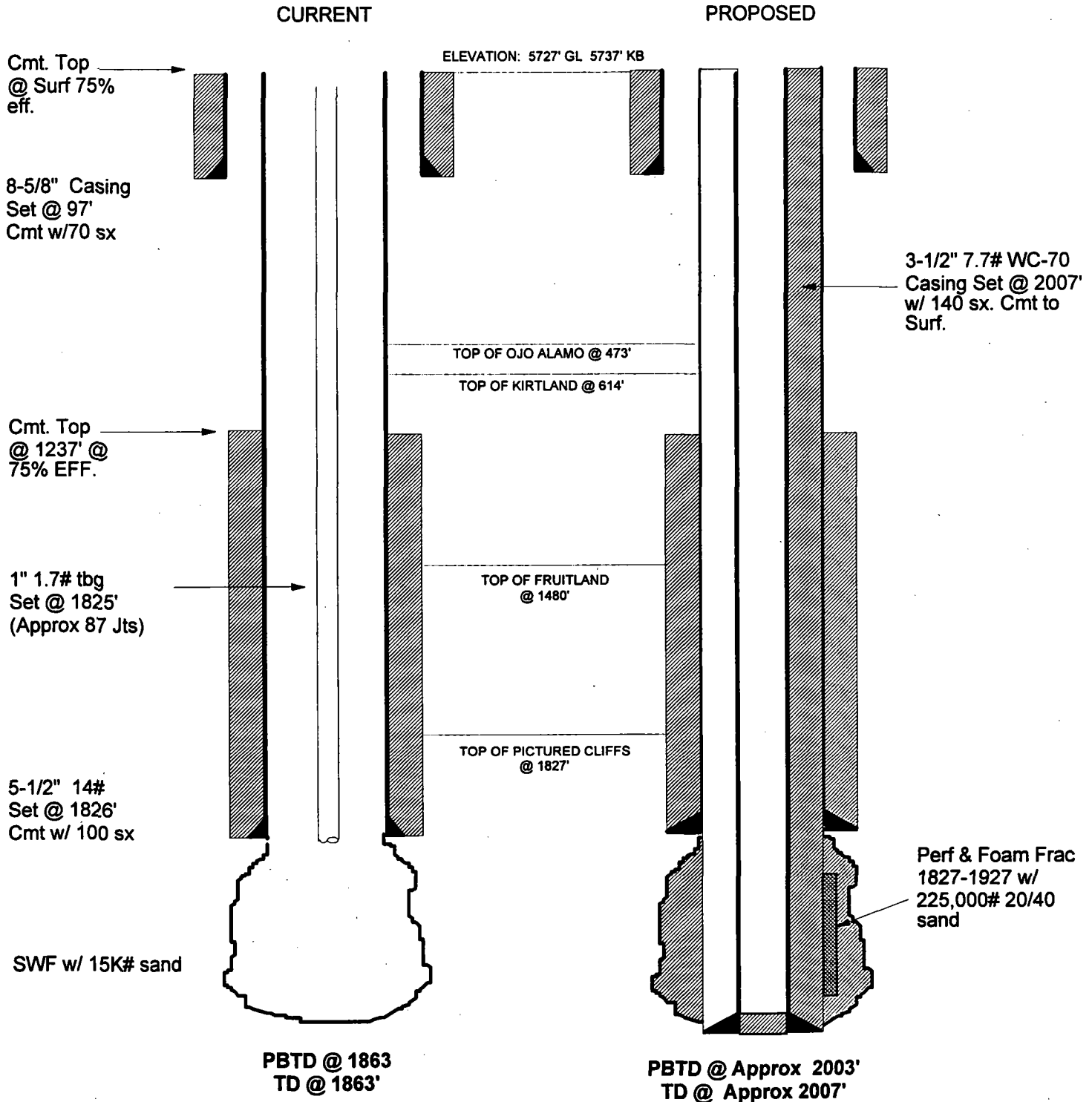
Production History: 5/97 PC capacity: 10 MCF/D. 5/97 PC cum: 440 MMCF.

Pipeline: EPNG

Cornell #6

Section 11C, T-29-N, R-12-W
San Juan County, NM

FULCHER KUTZ PICTURED CLIFFS WELLBORE SCHEMATIC



Ballard #9
Pertinent Data Sheet

Location: 990' FSL & 1800' FEL, Unit O, Section 15, T26N, R9W, San Juan County, New Mexico

Latitude: 36-29-01

Longitude: 107-46-23

Field: Ballard PC **Elevation:** 6321' GL
6331' KB

TD: 2007'

PBTD: 2007'

Spud Date: 8/2/54 **Compl Date:** 8/11/54

DP #: 48987A

Lease: FPNM4516300

GWl: 100.00%

Initial Potential: 3/4" C.V. = 2039 MCF/D, SICP = 647 psi

NRI: 64.183%

Prop#: 012633400

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
12-1/4"	8-5/8"	24# ?	91'	100 sx.	Surf @ 75% Eff.
7-7/8"	5-1/2"	14# ?	1964'	100 sx.	1375' @ 75% Eff.
E4-3/4"	OH		1964-2007'		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>
1"	1.7# ?	1913'	≈ 91

Formation Tops:

Ojo Alamo:	1152'
Kirtland Shale:	1256'
Fruitland:	1701'
Pictured Cliffs:	1960'

Logging Record: None

Stimulation: SOF w/ 6.2K# sand, 6.3K gal oil, OH 1964-2007

Workover History: None

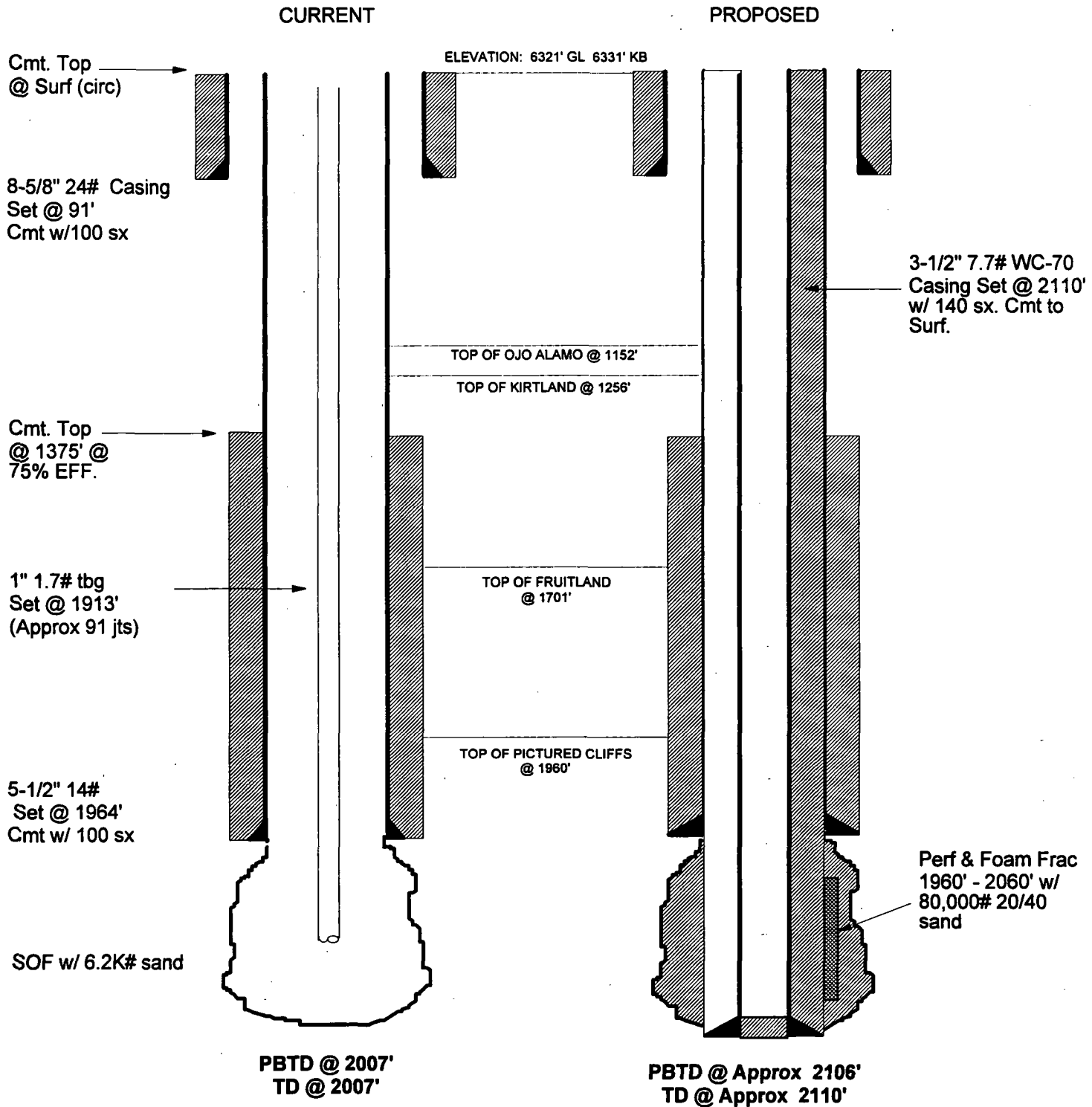
Production History: 5/97 PC capacity: 24 MCF/D. 5/97 PC cum: 1,726 MMCF.

Pipeline: EPNG

Ballard #9

Section 15O, T-26-N, R-9-W
San Juan County, NM

BALLARD PICTURED CLIFFS WELLBORE SCHEMATIC



ALBRIGHT #1
Pertinent Data Sheet

Location: 790' FSL & 790' FWL, Unit M, Section 15, T29N, R10W, San Juan County, New Mexico

Latitude: 36-43-17

Longitude: 107-52-72

Field: Aztec PC

Elevation: 5705' GL
5715' KB

TD: 2120'

PBTD: 2120'

Spud Date: 9/8/55 **Compl Date:** 9/23/55

DP #: 32154A

Lease: FPNM9383220

GWI: 100.00%

NRI: 84.00%

Prop#: 071210400

Initial Potential: 3/4" C.V. = 2347 MCF/D, SICP = 677 psi

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
13-3/4"	9-5/8"	32# J-55	127'	125 sx.	Circ Cmt
8-3/4"	5-1/2"	15.5# J-55	2054'	100 sx.	1650' @ 75% Eff.
e4-3/4"	OH		2054-2120'		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>
1"	1.7# L.P.	2066'	≈ 98

Formation Tops:

Ojo Alamo:	883'
Kirtland Shale:	988'
Fruitland:	1438'
Pictured Cliffs:	2053'

Logging Record: None

Stimulation: SOF w/ 14K# sand, 12.6K gal oil, OH 2054-2120

Workover History: NONE

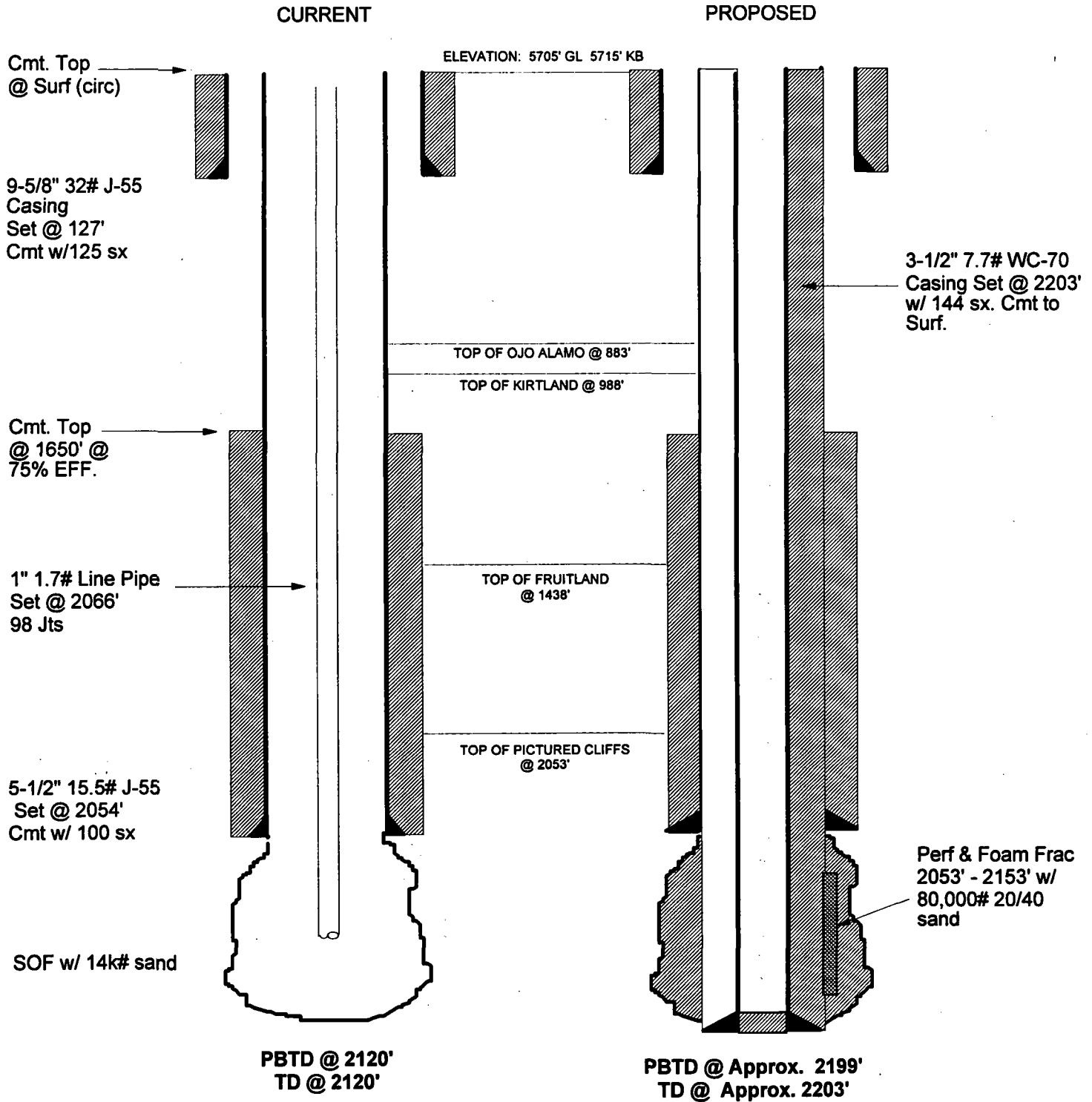
Production History: 5/97 PC capacity: 15 MCF/D. 5/97 PC cum: 669 MMCF.

Pipeline: W.F.S. on Grenier Lateral

Albright #1

Section 15M, T-29-N, R-10-W
San Juan County, NM

AZTEC PICTURED CLIFFS WELLBORE SCHEMATIC



ZACHRY #3
Pertinent Data Sheet

Location: 990' FSL & 1090' FEL, Unit P, Section 35, T29N, R10W, San Juan County, New Mexico

Latitude: 36-40-42

Longitude: 107-50-57

Field: Aztec PC

Elevation: 5779' GL
5789' KB

TD: 2105'

PBTD: 2105'

Spud Date: 3/30/55

Compl Date: 4/8/55

DP #: 32192A

Lease: FPNM9388220

GWI: 100.00%

NRI: 82.00%

Prop#: 071212800

Initial Potential: AOF = 3463 MCF/D, SICP = 679 psi

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
13-3/4" est	9-5/8"	36# H-40	101'	100 sx.	Surf-Circ
8-3/4"	5-1/2"	15.5# J-55	2033'	150 sx.	1427' @ 75% Eff.
4-3/4"	OH		2033'-2105'		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>
1"	1.7# ?	2082'	≈ 99

Formation Tops:

Ojo Alamo:	894'
Kirtland Shale:	1054'
Fruitland:	1739'
Pictured Cliffs:	2024'

Logging Record: None

Stimulation: SOF w/ 15K# sand, 12.6K gal oil, OH 2033-2105

Workover History: NONE

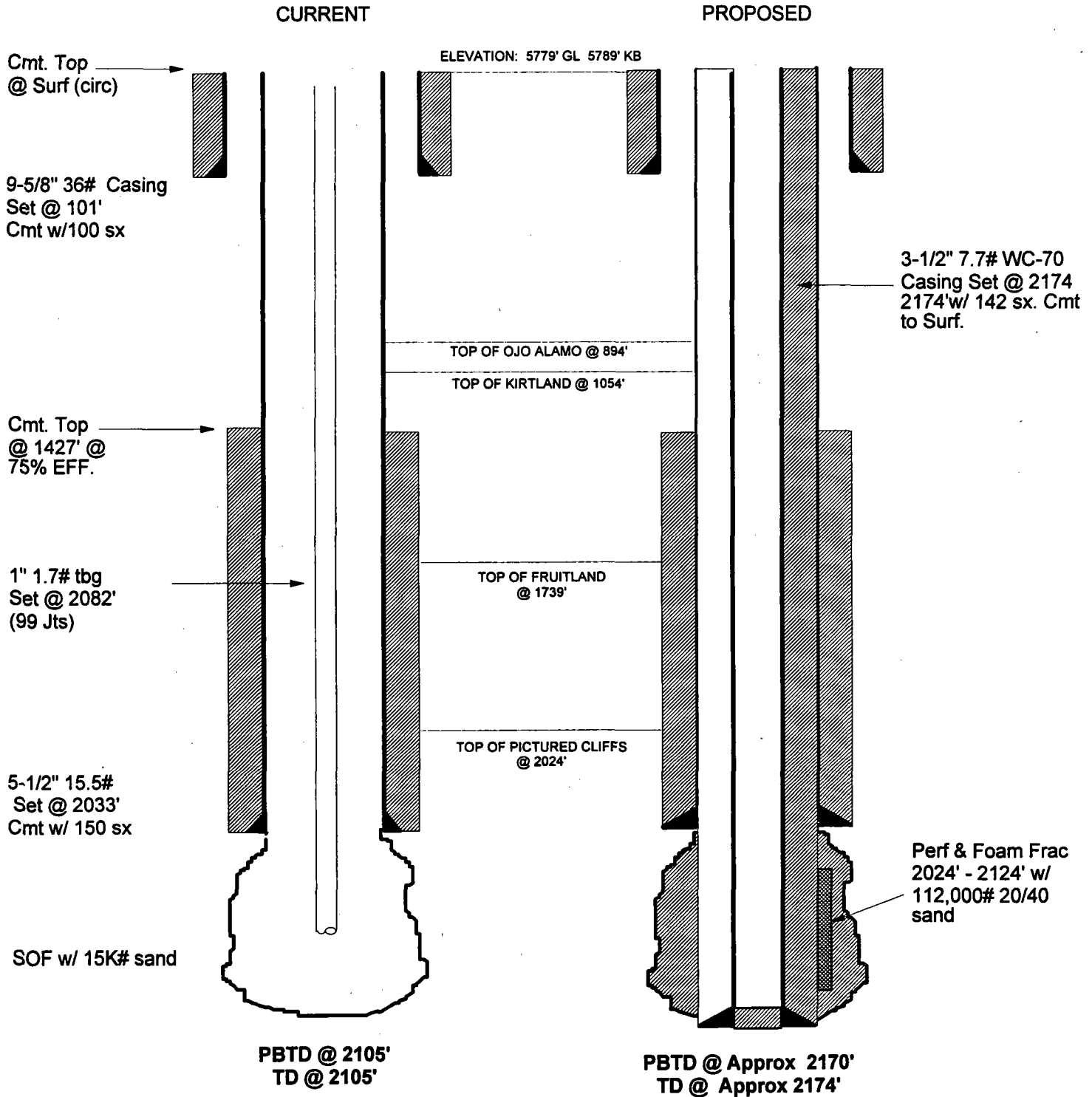
Production History: 4/97 PC capacity: 36 MCF/D. 4/97 PC cum: 970 MMCF.

Pipeline: MOI (Rudy Lateral)

Zachry #3

Section 35P, T-29-N, R-10-W
San Juan County, NM

AZTEC PICTURED CLIFFS WELLBORE SCHEMATIC



ZACHRY #7
Pertinent Data Sheet

Location: 975' FSL & 930' FWL, Unit M, Section 34, T29N, R10W, San Juan County, New Mexico

Latitude: 36-40-40

Longitude: 107-52-39

Field: Aztec PC

Elevation: 5702' GL
5712' KB

TD: 1991'

PBTD: 1991'

Spud Date: 5/26/55

Compl Date: 5/30/55

DP #: 32186A

Lease: FPNM9388220

GWl: 100.00%

NRI: 82.00%

Prop#: 071212800

Initial Potential: AOF = 4744 MCF/D, SICP = 600 psi

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
13-3/4"	9-5/8"	36# H-40	152'	150 sx.	Surf-Circ
8-3/4"	5-1/2"	15.5# J-55	1924'	150 sx.	1318' @ 75% Eff.
4-3/4"	OH		1924'-1991'		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>
1"	1.7# ?	1946'	≈93

Formation Tops:

Ojo Alamo:	835'
Kirtland Shale:	920'
Fruitland:	1636'
Pictured Cliffs:	1923'

Logging Record: None

Stimulation: SOF w/ 16K# sand, 12.6K gal oil, OH 1924-1991

Workover History: NONE

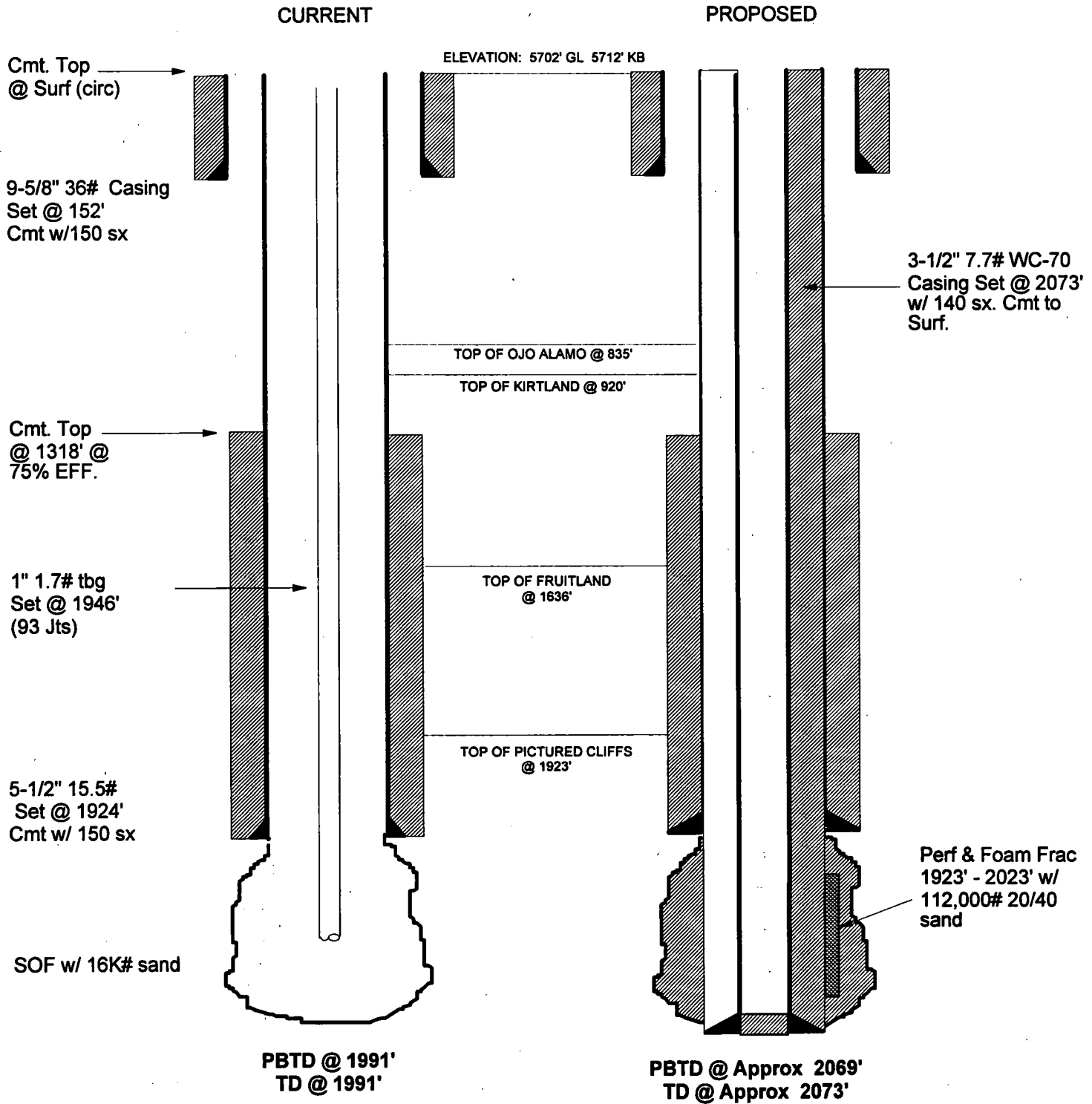
Production History: 4/97 PC capacity: 38.5 MCF/D. 4/97 PC cum: 1041 MMCF.

Pipeline: MOI (Rudy Lateral)

Zachry #7

Section 34M, T-29-N, R-10-W
San Juan County, NM

AZTEC PICTURED CLIFFS WELLBORE SCHEMATIC



Walker SRC #1
Pertinent Data Sheet

Location: 1320' FNL & 1320' FEL, Unit G, Section 3, T29N, R12W, San Juan County, New Mexico

Latitude: 36-45-30

Longitude: 108-04-51

Field: Fulcher Kutz PC

Elevation: 5843' GL
5853' KB

TD: 2050'
PBTD: 2020'

Spud Date: 2/28/43

Compl Date: 3/27/43

DP #: 84675
Lease: PR020256T
GWl: 25.00%
NRI: 20.3125%
Prop#: 0020256

Initial Potential: AOF = 1350 MCF/D, SICP = 575 psi

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
12-1/4"	8-1/2"	32# ?	?'	? sx.	?
7-7/8" est	5-1/2"	14# ?	1930'	50 sx.	1636' @ 75% Eff.
4-3/4"	3-1/2"	7.7# ?	2058' 175 sx.		Surf @ 75% Eff.

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>
1"	1.7#	1913'	99

Formation Tops:

Ojo Alamo:	582'
Kirtland Shale:	687'
Fruitland:	1580'
Pictured Cliffs:	1952'

Logging Record: None

Stimulation: NONE

Workover History: 3-1/2" Restim: Perf 1938-74 2 SPF, SWF w/10K# 10/20 sand & 10K# 20/40 sand.

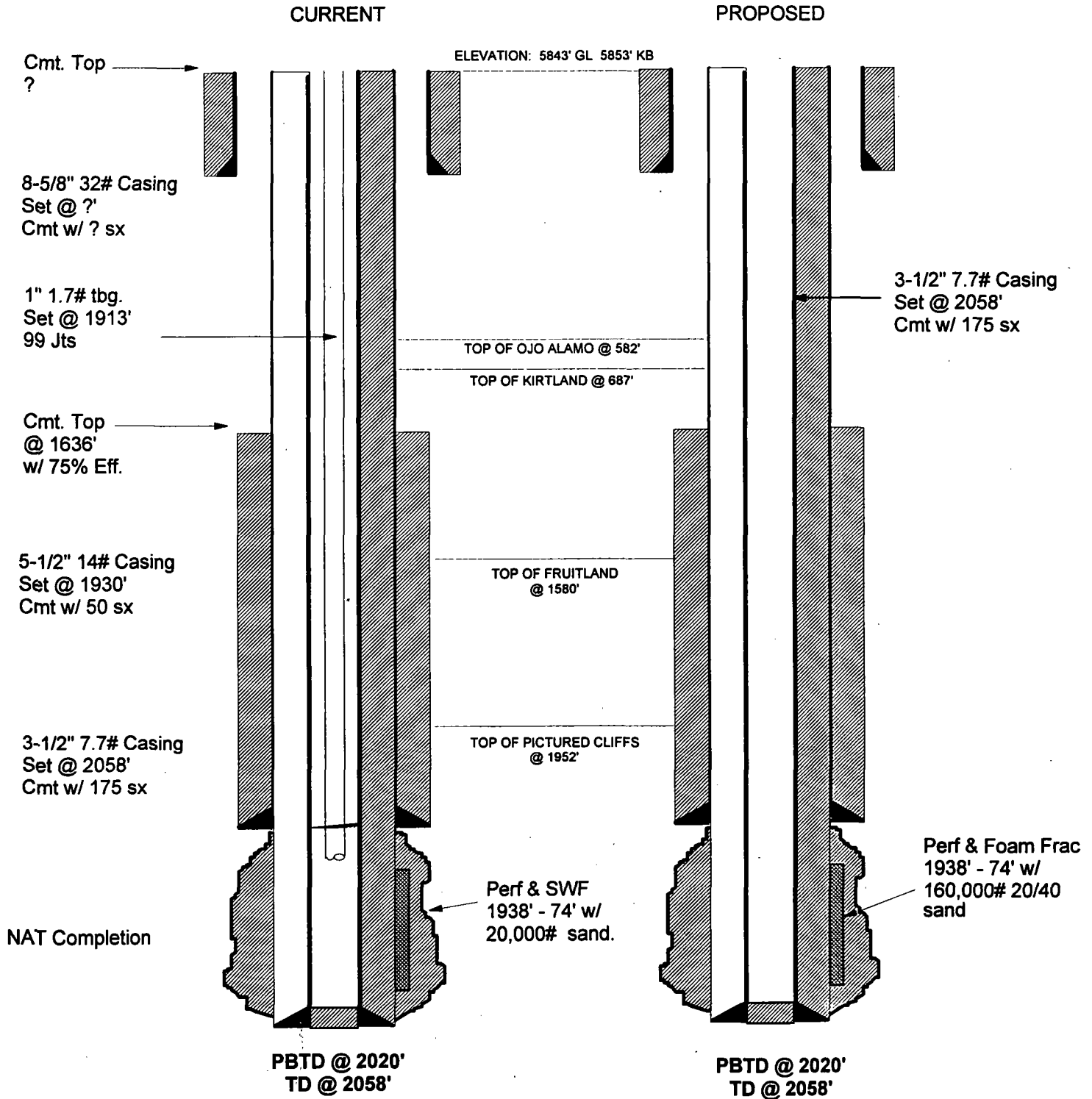
Production History: 5/97 PC capacity: 25 MCF/D. 5/97 PC cum: 1232 MMCF.

Pipeline: W.F.S.

Walker SRC #1

Section 3G, T-29-N, R-12-W
San Juan County, NM

FULCHER KUTZ PICTURED CLIFFS WELLBORE SCHEMATIC



CONGRESS #3
Pertinent Data Sheet

Location: 990' FSL & 990' FWL, Unit M, Section 35, T29N, R11W, San Juan County, New Mexico

Latitude: 36-40-41

Longitude: 107-57-58

Field: Fulcher Kutz PC

Elevation: 5701' GL
5711' KB

TD: 1941'

PBTD: 1920'

Spud Date: 1/12/52

Compl Date: 2/05/52

DP #: 32218A

Lease: FPNM9404020

GWl: 100.00%

Initial Potential: AOF = 1631 MCF/D, SICP = 294 psi

NRI: 83.2807%

Prop#: 071265200

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
12-1/4"	8-5/8"	32# J-55	138'	65 sx.	Circ Cmt
7-7/8"	5-1/2"	14# H-40	1845'	75 sx.	1403' @ 75% Eff.
4-3/4"	3-1/2"	9.3# H-80	1941'	200 sx.	Circ-Surf.

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>
1-1/2"	2.75#-H-40	1816'	63

Formation Tops:

Ojo Alamo:	654'
Kirtland Shale:	791'
Fruitland:	1510'
Pictured Cliffs:	1818'

Logging Record: None

Stimulation: SOH w/ 180 qts SNG,

Workover History: 4/63: Pull tbg, DO to new TD, ran & cmt 3-1/2", SWF w/40K# sand, run tbg., Perf.
1845-52, 1854-62, 1866-74 w/2 SPF

Production History: 4/97 PC capacity: 47 MCF/D. 4/97 PC cum: 1135 MMCF.

Pipeline: MOI Lateral (Rudy)

Congress #3

Section 35M, T-29-N, R-11-W
San Juan County, NM

FULCHER KUTZ PICTURED CLIFFS WELLBORE SCHEMATIC

