



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

December 15, 1997

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

Corrected Administrative Order TX-276

Dear Ms. Bradfield:

Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107(d) (3) 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:

Abrams Well No. 1, API No. 30-045-09863, Unit J, Section 5, Township 30 North, Range 11 West, NMPM, San Juan County, New Mexico.

Abrams Well No. 2, API No. 30-045-09941, Unit H, Section 5, Township 30 North, Range 11 West, San Juan County, New Mexico.

Ballard Well No. 1, API No. 30-045-05901, Unit M, Section 10, Township 26 North, Range 9 West, San Juan County, New Mexico.

Ballard Well No. 3, API No. 30-045-05852, Unit H, Section 14, Township 26 North, Range 9 West, NMPM, San Juan County, New Mexico.

Ballard Well No. 4, API No. 30-045-05822, Unit M, Section 14, Township 26 North, Range 9 West, San Juan County, New Mexico.

Canyon Largo Unit Well No. 54, API No. 30-039-05880, Unit P, Section 24, Township 25 North, Range 7 West, Rio Arriba County, New Mexico.

Cain Well No. 5, API No. 30-045-07519, Unit D, Section 14, Township 28 North, Range 10 West, NMPM, San Juan County, New Mexico.

Cleveland Well No. 3, API No. 30-045-06409, Unit C, Section 21, Township 27 North, Range 9 West, San Juan County, New Mexico.

Day M Well No. 4, API No. 30-045-06204, Unit M, Section 30, Township 27 North, Range 10 West, San Juan County, New Mexico.

PV2005730976

Douthit Federal Well No. 5, API No. 30-045-06231, Unit K, Section 26, Township 27 North, Range 11 West, NMPM, San Juan County, New Mexico.

Fifield Well No. 2, API No. 30-045-08688, Unit J, Section 5, Township 29 North, Range 11 West, San Juan County, New Mexico.

Huerfanito Unit Well No. 13, API No. 30-045-06000, Unit N, Section 1, Township 26 North, Range 9 West, San Juan County, New Mexico.

Huerfanito Unit Well No. 14, API No. 30-045-05999, Unit O, Section 1, Township 26 North, Range 9 West, NMPM, San Juan County, New Mexico.

Huerfanito Unit Well No. 16, API No. 30-045-06071, Unit D, Section 2, Township 26 North, Range 9 West, San Juan County, New Mexico.

Huerfanito Unit Well No. 21, API No. 30-045-06002, Unit O, Section 3, Township 26 North, Range 9 West, San Juan County, New Mexico.

Huerfanito Unit Well No. 27, API No. 30-045-06111, Unit M, Section 34, Township 27 North, Range 9 West, San Juan County, New Mexico.

Huerfanito Unit Well No. 30, API No. 30-045-06097, Unit P, Section 35, Township 27 North, Range 9 West, NMPM, San Juan County, New Mexico.

Huerfanito Unit Well No. 36, API No. 30-045-06154, Unit E, Section 35, Township 27 North, Range 9 West, San Juan County, New Mexico.

Huerfanito Unit Well No. 67, API No. 30-045-05905, Unit O, Section 12, Township 26 North, Range 9 West, San Juan County, New Mexico.

Huerfano Unit Well No. 15, API No. 30-045-06187, Unit A, Section 32, Township 27 North, Range 10 West, San Juan County, New Mexico.

Huerfano Unit Well No. 21, API No. 30-045-05969, Unit B, Section 9, Township 26 North, Range 10 West, NMPM, San Juan County, New Mexico.

Huerfano Unit Well No. 27, API No. 30-045-05786, Unit A, Section 23, Township 26 North, Range 9 West, San Juan County, New Mexico.

Huerfano Unit Well No. 28, API No. 30-045-05911, Unit P, Section 9, Township 26 North, Range 9 West, San Juan County, New Mexico.

Hughes Well No. 1, API No. 30-045-07358, Unit B, Section 23, Township 28 North, Range 11 West, NMPM, San Juan County, New Mexico.

Mangum SRC Well No. 1, API No. 30-045-07842, Unit I, Section 29, Township 29 North, Range 11 West, San Juan County, New Mexico.

Murphy C Well No. 1, API No. 30-045-09240, Unit A, Section 27, Township 30 North, Range 11 West, San Juan County, New Mexico.

Nye SRC Well No. 4, API No. 30-045-60211, Unit J, Section 13, Township 30 North, Range 11 West, NMPM, San Juan County, New Mexico.

Omler Well No. 8, API No. 30-045-07132, Unit M, Section 25, Township 28 North, Range 10 West, San Juan County, New Mexico.

Schultz Well No. 3, API No. 30-045-06449, Unit N, Section 16, Township 27 North, Range 8 West, San Juan County, New Mexico.

Schultz Com Well No. 4, API No. 30-045-06469, Unit J, Section 16, Township 27 North, Range 8 West, San Juan County, New Mexico.

Sullivan A Well No. 1, API No. 30-045-07280, Unit O, Section 23, Township 28 North, Range 10 West, NMPM, San Juan County, New Mexico.

Sutton Well No. 1, API No. 30-045-09558, Unit D, Section 18, Township 30 North, Range 11 West, San Juan County, New Mexico.

Turner Hughes Well No. 5, API No. 30-045-13284, Unit E, Section 3, Township 27 North, Range 9 West, San Juan County, New Mexico.

White Kutz Well No. 1, API No. 30-045-07346, Unit E, Section 22, Township 28 North, Range 10 West, San Juan County, New Mexico.

Zachry Well No. 4, API No. 30-045-13362, Unit P, Section 34, Township 29 North, Range 10 West, NMPM, San Juan County, New Mexico.

Zachry Well No. 6, API No. 30-045-07584, Unit P, Section 10, Township 28 North, Range 10 West, San Juan County, New Mexico.

Dallabetta Well No. 1, API No. 30-045-07937, Unit N, Section 20, Township 29 North, Range 11 West, San Juan County, New Mexico.

Hanks Well No.3, API No. 30-045-06628, Unit M, Section 12, Township 27 North, Range 10 West, San Juan County, New Mexico.

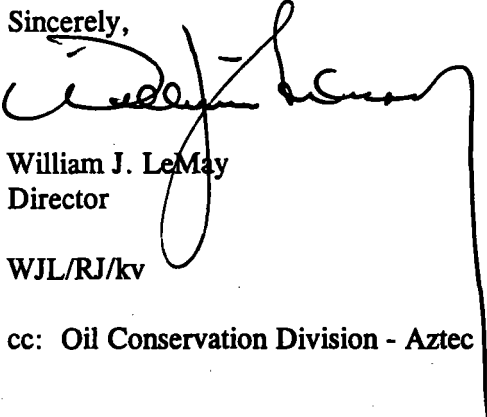
Hanks Well No. 4, API No. 30-045-06617, Unit P, Section 7, Township 27 North, Range 9 West, NMPM, San Juan County, New Mexico.

Kattler Well No. 1, API No. 30-045-08844, Unit C, Section 2, Township 29 North, Range 12 West, San Juan County, New Mexico.

McGrath SRC Well No. 1, API No. 30-045-08713, Unit J, Section 2, Township 29 North, Range 12 West, San Juan County, New Mexico.

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

Roy Johnson

From: Peggy Bradfield[SMTP:pbradfield@br-inc.com]
Sent: Monday, December 08, 1997 4:39 PM
To: rjohnson; EBUSCH
Subject: TX Order-276

⇒ Roy and Ernie: thanks for working on our latest TX application. I rec'd it today; however, please note on Page 2, the last four wells should be Huerfano's, not Huerfanito's. I've changed my copy, just wanted us all to be on the same page.

pbradfield@br-inc.com
505-326-9727

Ernie: would you please check the e-mail address I have for Roy. Your's and Frank's address had changed; I have an e-mail address list dated 6-17-97, and didn't know if Santa Fe e-mail addresses had changed also.
thanks



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

December 1, 1997

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

Administrative Order TX-276

Dear Ms. Bradfield:

Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107(d) (3) for the below-named wells.

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Well Name, Number and Location:

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Ballard Well No. 3, API No. 30-045-05852, Unit H, Section 14, Township 26 North, Range 9 West, NMPM, San Juan County, New Mexico.

Ballard Well No. 4, API No. 30-045-05822, Unit M, Section 14, Township 26 North, Range 9 West, San Juan County, New Mexico.

Canyon Largo Unit Well No. 54, API No. 30-039-05880, Unit P, Section 24, Township 25 North, Range 7 West, Rio Arriba County, New Mexico.

Cain Well No. 5, API No. 30-045-07519, Unit D, Section 14, Township 28 North, Range 10 West, NMPM, San Juan County, New Mexico.

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Fifield Well No. 2, API No. 30-045-08688, Unit J, Section 5, Township 29 North, Range 11 West, San Juan County, New Mexico.

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Hughes Well No. 1, API No. 30-045-07358, Unit B, Section 23, Township 28 North, Range 11 West, NMPM, San Juan County, New Mexico.

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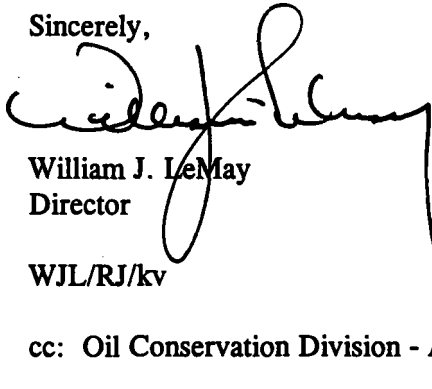
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McGrath SRC Well No. 1, API No. 30-045-08713, Unit J, Section 2, Township 29 North, Range 12 West, San Juan County, New Mexico.

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

September 30, 1997

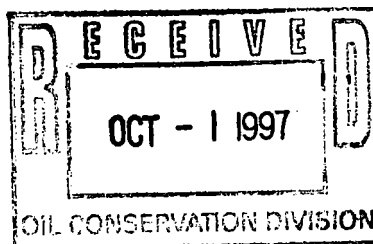
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

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.

Abrams #1	SE Section 5, T-30-N, R-11-W
Abrams #2	NE Section 5, T-30-N, R-11-W
Ballard #1	NW Section 10, T-26-N, R-9-W
Ballard #3	NE Section 14, T-26-N, R-9-W
Ballard #4	SW Section 14, T-26-N, R-9-W
Canyon Largo Unit #54	SE Section 24, T-25-N, R-7-W
Cain #5	NW Section 14, T-28-N, R-10-W
Cleveland #3	NW Section 21, T-27-N, R-9-W
Day M #4	SW Section 30, T-27-N, R-10-W
Douthit Federal #5	SW Section 26, T-27-N, R-11-W
Fifield #2	SE Section 5, T-29-N, R-11-W
Huerfanito Unit #13	SW Section 1, T-26-N, R-9-W
Huerfanito Unit #14	SE Section 1, T-26-N, R-9-W
Huerfanito Unit #16	NW Section 2, T-26-N, R-9-W
Huerfanito Unit #21	SE Section 3, T-26-N, R-9-W
Huerfanito Unit #27	SW Section 34, T-27-N, R-9-W
Huerfanito Unit #30	SE Section 35, T-27-N, R-9-W
Huerfanito Unit #36	NW Section 35, T-27-N, R-9-W
Huerfanito Unit #67	SE Section 12, T-26-N, R-9-W
Huerfano Unit #15	NE Section 32, T-27-N, R-10-W
Huerfano Unit #21	NE Section 9, T-26-N, R-10-W
Huerfano Unit #27	NE Section 23, T-26-N, R-9-W
Huerfano Unit #28	SE Section 9, T-26-N, R-9-W
Hughes #1	NE Section 23, T-28-N, R-11-W
Mangum SRC #1	SE Section 29, T-29-N, R-11-W
Murphy C #1	NE Section 27, T-30-N, R-11-W
Nye SRC #4	SE Section 13, T-30-N, R-11-W
Omler #8	SW Section 25, T-28-N, R-10-W
Schultz #3	SW Section 16, T-27-N, R-8-W
Schultz Com #4	SE Section 16, T-27-N, R-8-W
Sullivan A #1	SE Section 23, T-28-N, R-10-W
Sutton #1	NW Section 18, T-30-N, R-11-W
Turner Hughes #5	NW Section 3, T-27-N, R-9-W
White Kutz #1	NW Section 22, T-28-N, R-10-W
Zachry #4	SE Section 34, T-29-N, R-10-W
Zachry #6	NE Section 10, T-28-N, R-10-W



*KV -
Tubingless completions
Tx order.*

*NEED - Unit letter &
API #'s on
wellbore diagrams*

*E. Bush
Marvin Webb
needs to talk w/
E. Bush
11/24 - E. Bush -
write order as Bush
has worked out emulus
prob.'s w/ Burlington*

Mr. Roy Johnson
New Mexico Oil Conservation Division
Page Two
September 30, 1997

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.

Dallabetta #1	SW Section 20, T-29-N, R-11-W
Hanks #3	SW Section 12, T-27-N, R-10-W
Hanks #4	SE Section 7, T-27-N, R-9-W
Kattler #1	NW Section 2, T-29-N, R-12-W
McGrath SRC #1	SE Section 2, 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,

BURLINGTON RESOURCES



Peggy Bradfield
Regulatory/Compliance Administrator

xc: NMOCD - Aztec District Office

Abrams # 1
Pertinent Data Sheet

API #: 300450986300 (30-045-09863)

Location: 1673' FSL & 1831' FEL, Unit J, Section 5, T30N, R11W, San Juan County, New Mexico

Latitude: 36° - 50.31' **Longitude:** 108° - 0.64'

Field: Aztec PC

Elevation: 5667' GL
5678' KB

TD: 2200'
PBTD: 2200'

Spud Date: 5/25/54

Compl Date: 10/7/54

DP #: 11427A
Lease: NM 6958 (Private)

Initial Potential: 1664 Mcfd

Original SIP: 684 psi

GWI: 57.5 %
NRI: 48.875 %
Prop#: 71088200

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 J-55	84	50	circ to surf
7 7/8	5 1/2	15.5 J-55	2,117	100	1528' @ 75% eff.
4 3/4	openhole		2,117 -2,200		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,194'	104 (est)	No record on tbg in hole (Dwights data)

Formation Tops:

Ojo Alamo: 660'
Kirtland Shale: 735'
Fruitland: 1,895'
Pictured Cliffs: 2,115'

Logging Record:

Original Stimulation: SOH w/ 200 qts SNG

Workover History: None

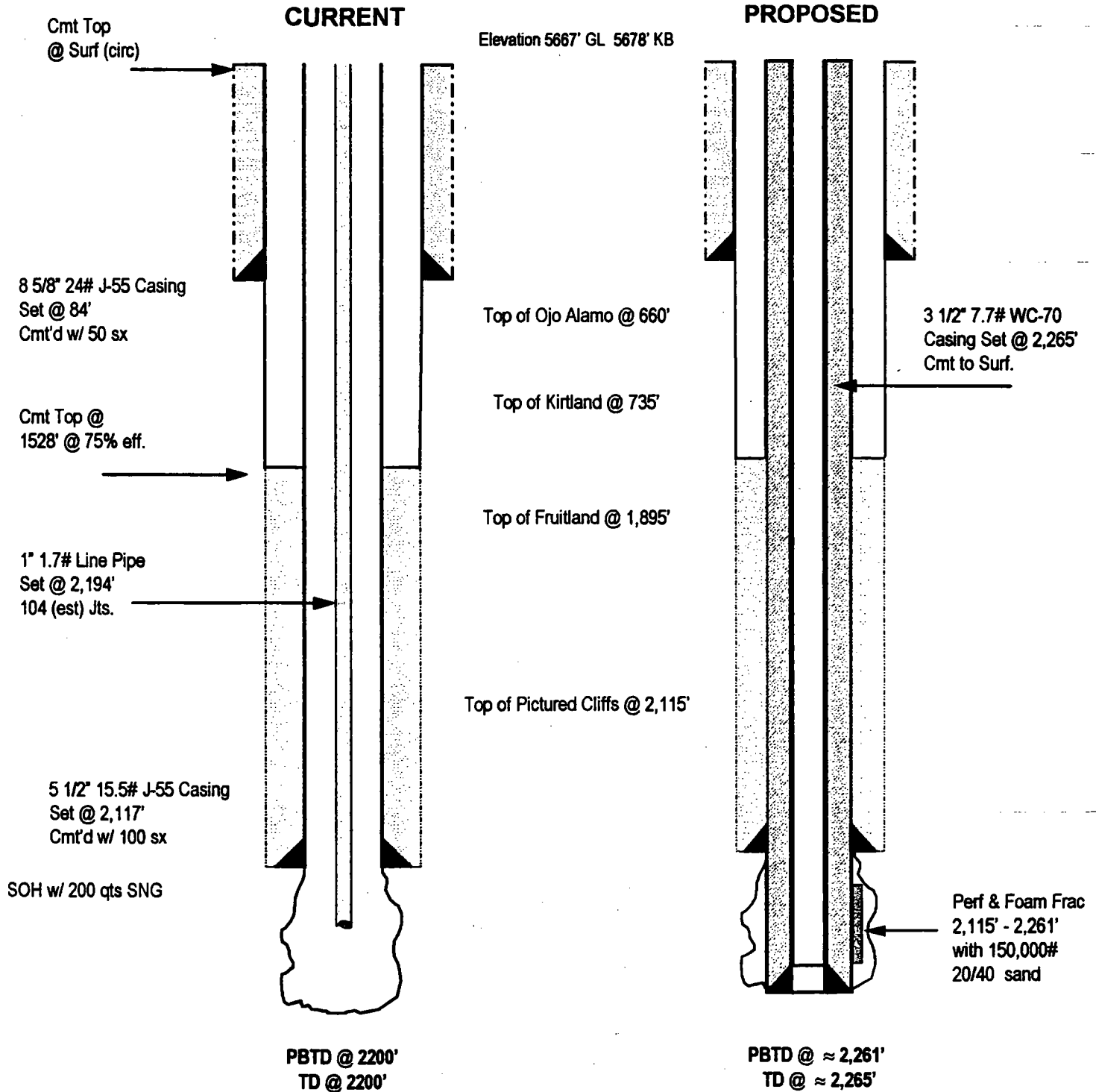
Production History: 7/97 PC capacity: 5 MCF/D. 7/97 PC cum: 953 MMCF.

Pipeline: EPNG

Abrams # 1

Section 5 J, T-30 -N R-11 -W
San Juan, New Mexico

Aztec Pictured Cliffs Field Wellbore Schematic



Abrams # 2
Pertinent Data Sheet

API #: 300450994100

Location: 1518' FNL & 1112' FEL, Unit H, Section 5, T30N, R11W, San Juan County, New Mexico

Latitude: 36° - 50.65'

Longitude: 108° - 0.49'

Field: Aztec PC

Elevation: 5732' GL
5742' KB

TD: 2245'

PBTD: 2245'

DP #: 11428A

Lease: NM 6958 (Private)

GWI: 57.5 %

NRI: 48.52365 %

Prop#: 71088300

Spud Date: 6/24/54

Compl Date: 7/9/54

Initial Potential: 1165 Mcfd

Original SIP: 673 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 5/8	8 5/8	24 J-55	89	60	circ to surf
7 7/8	5 1/2	15.5 J-55	2,189	100	1600' @ 75% eff.
4 3/4	openhole		2,189 -2,245		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,245'	107 (est)	

Formation Tops:

Ojo Alamo: 730'
Kirtland Shale: 805'
Fruitland: 1,935'
Pictured Cliffs: 2,185'

Logging Record:

Original Stimulation: SOH w/ 148 qts SNG

Workover History: None

Production History: 7/97 PC capacity: 0 MCF/D. 7/97 PC cum: 1201 MMCF.

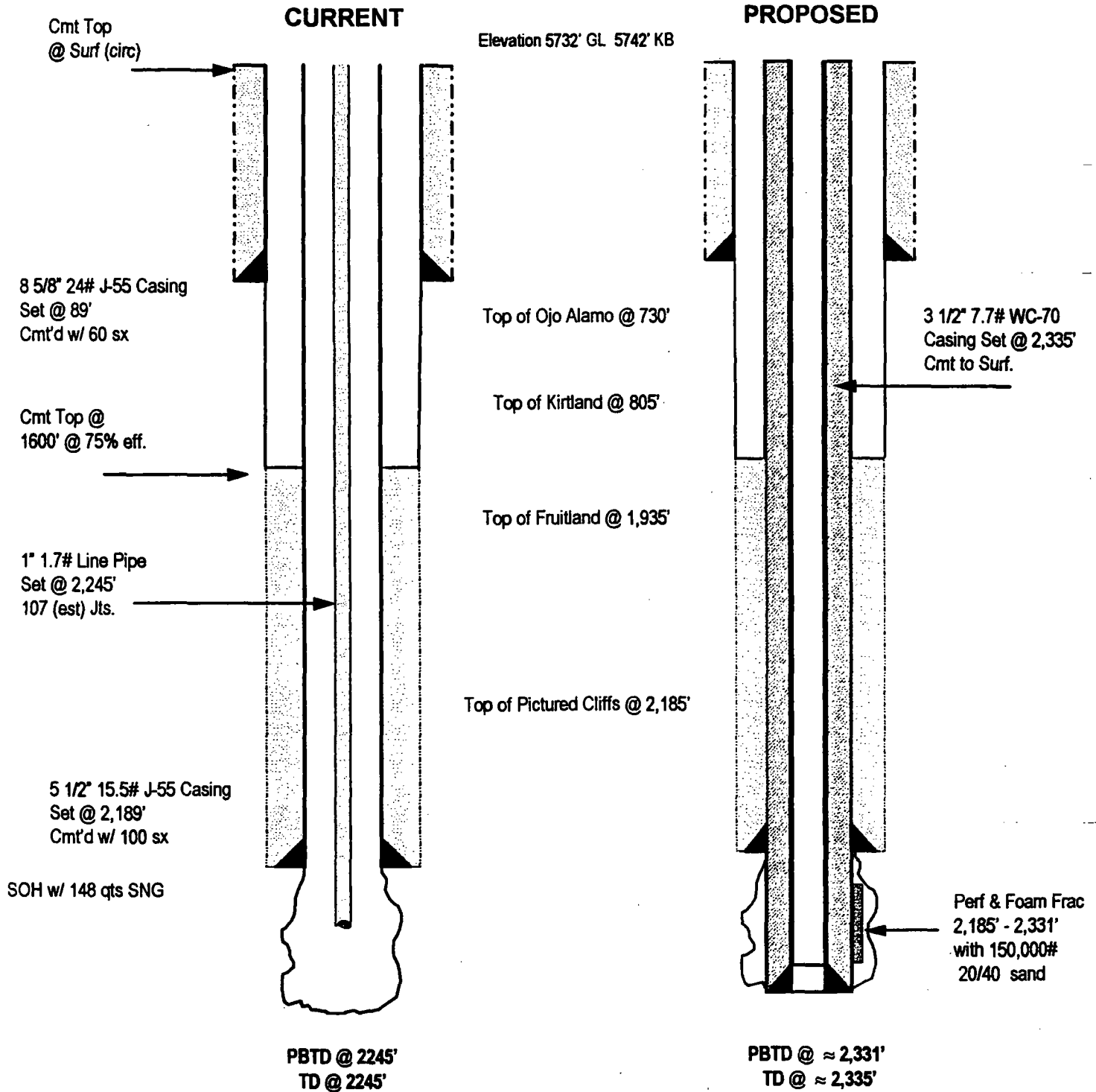
Pipeline: EPNG

File: Q:\area\pcteam\1998\welldata\convert-1\CONVPERT.DOC

Abrams # 2

Section 5 H, T-30 -N R-11 -W
San Juan, New Mexico

Aztec Pictured Cliffs Field Wellbore Schematic



Ballard #1
Pertinent Data Sheet

API #: 300450590100

Location: 790' FSL & 790' FWL, Unit M, Section 10, T26N, R09W, San Juan County, New Mexico

Latitude: 36° - 29.85'

Longitude: 107° - 46.91'

Field: Ballard PC

Elevation: 6342' GL
6352' KB

ID: 2067'
PBTD: 2067'
DP #: 48965A
Lease: NM 4521-300 (Fed)
GWI: 100 %
NRI: 83.5 %
Prop#: 0-126339-00

Spud Date: 5/12/54

Compl Date: 5/27/54

Initial Potential: 3445 Mcfd

Original SIP: 655 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 VS Smls	118	85	circ to surf
7 7/8	5 1/2	17 VS Smls	2,030	140	1206' @ 75% eff.
4 3/4	openhole		2,030 -2,067		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,035'	97	

Formation Tops:

Ojo Alamo: 1,190'
Kirtland Shale: 1,300'
Fruitland: 1,749'
Pictured Cliffs: 2,020'

Logging Record:

Original Stimulation: SOF w/ 6,300 gal diesel and 5,300# sand

Workover History: None

Production History: 7/97 PC capacity: 22.0 MCF/D. 7/97 PC cum: 2200.0 MMCF.

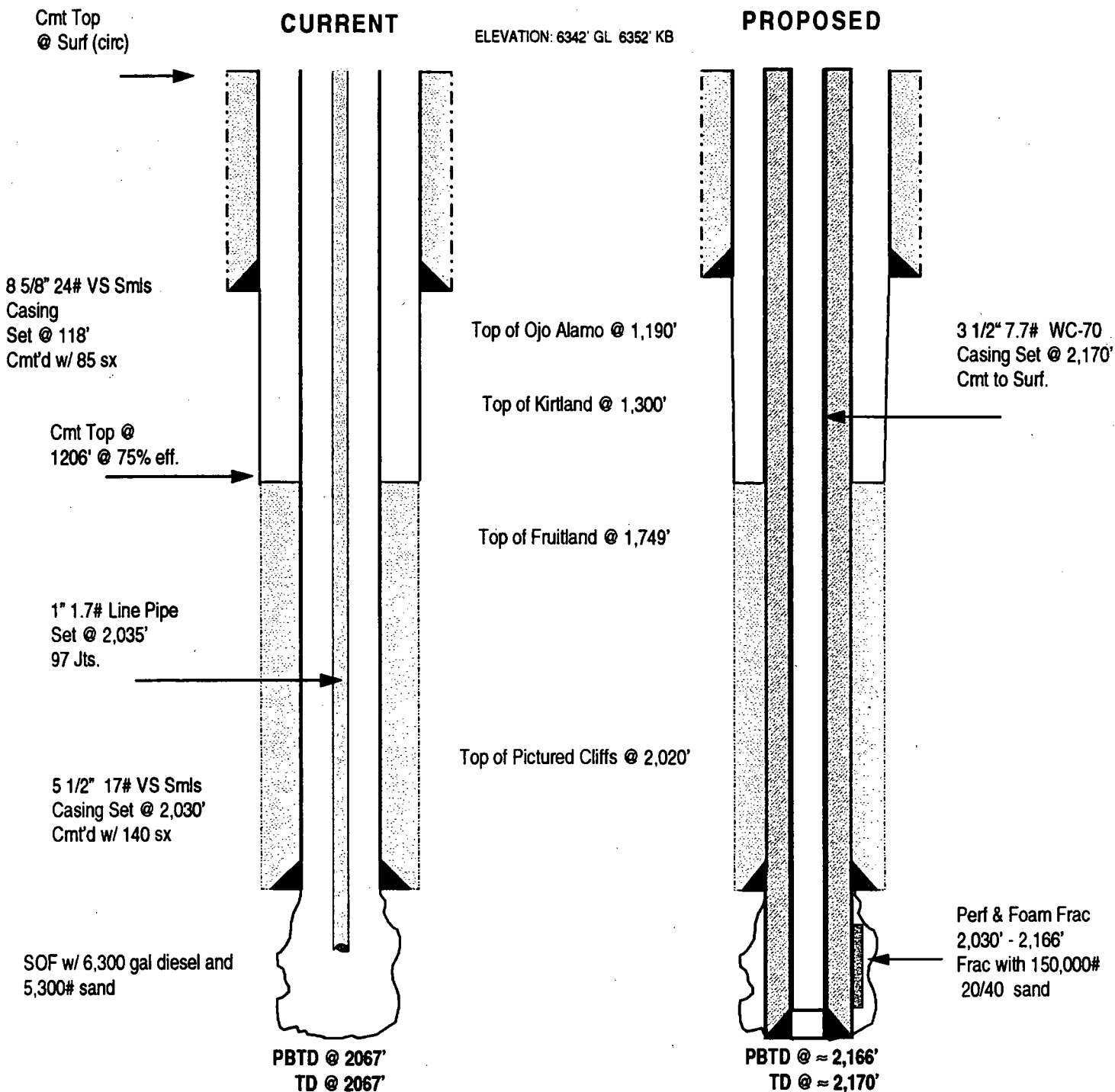
Pipeline: EPNG

Ballard # 1

Section 10 M, T-26-N R-09-W
San Juan, New Mexico

Ballard Pictured Cliffs Wellbore Schematic

ELEVATION: 6342' GL 6352' KB



Ballard #3
Pertinent Data Sheet

API #: 300450585200

Location: 1850 ' FNL & 790 ' FEL, Unit H, Section 14, T26N, R09W, San Juan County, New Mexico

Latitude: 36° - 29.41' **Longitude:** 107° - 45.12'

Field: Ballard PC

Elevation: 6299 ' GL
6307 ' KB

TD: 2033 '
PBTD: 2033 '
DP #: 48976A
Lease: NM 4516-300 (Fed)
GWl: 100 %
NRI: 64.183 %
Prop#: 0-126334-00

Spud Date: 5/18/54

Compl Date: 5/30/54

Initial Potential: Initial Potential = 1082 Mcfd
Orig SIP = 630 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 CFI	102	85	circ to surf
7 7/8	5 1/2	17 Smls	1,990	140	1166' @ 75% eff.
4 3/4	openhole		1,990 -2,033		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,016'	96	

Formation Tops:

Ojo Alamo: 1,168 '
Kirtland Shale: 1,270 '
Fruitland: 1,731 '
Pictured Cliffs: 1,990 '

Logging Record:

Original Stimulation: SOF w/ 5,300 gal oil and 4,000# sand

Workover History: None

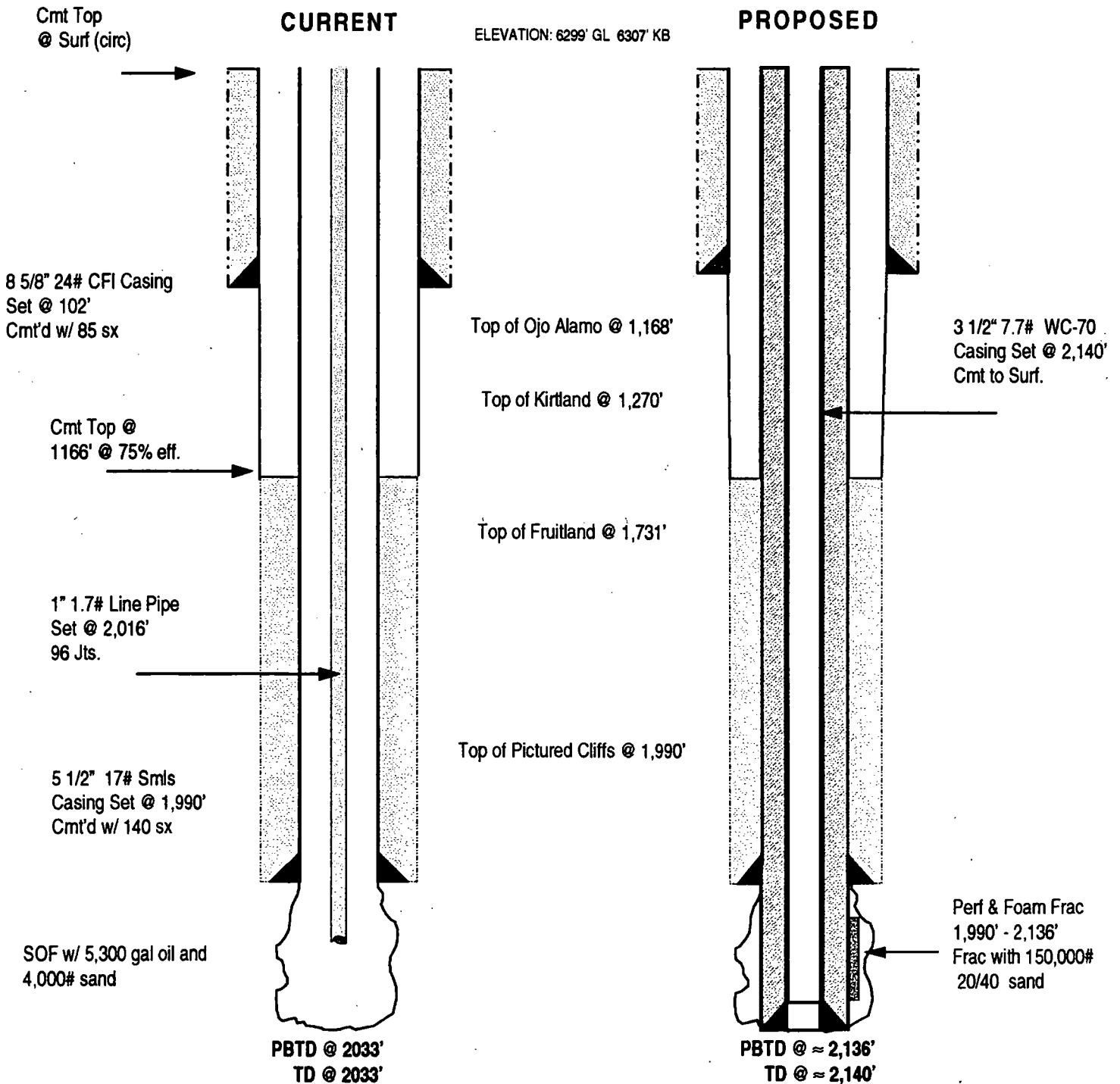
Production History: 7/97 PC capacity: 12.0 MCF/D. 7/97 PC cum: 1583.0 MMCF.

Pipeline: EPNG

Ballard # 3

Section 14 H, T-26-N R-09-W
San Juan, New Mexico

Ballard Pictured Cliffs Wellbore Schematic



Ballard # 4
Pertinent Data Sheet

API #: 300450582200

Location: 990 ' FSL & 990 ' FWL, Unit M, Section 14, T26N, R09W, San Juan County, New Mexico

Latitude: 36 ° - 29.01 ' **Longitude:** 107 ° - 45.82 '

Field: Ballard PC

Elevation: 6351 ' GL
6361 ' KB

TD: 2039 '

PBTD: 2039 '

DP #: 48986A

Lease: NM 4516-300 (Fed)

GWI: 100 %

NRI: 64.183 %

Prop#: 0-126334-00

Spud Date: 7/22/54

Compl Date: 8/5/54

Initial Potential: Initial Potential = 2371 Mcfd
Orig SIP = 642 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 J-55	104	100	circ to surf
7 7/8	5 1/2	14 J-55	2,005	100	1416' @ 75% eff.
4 3/4	openhole		2,005 -2,039		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,027'	97	11' perf jt on btm

Formation Tops:

Ojo Alamo: 1,169 '
Kirtland Shale: 1,310 '
Fruitland: 1,710 '
Pictured Cliffs: 2,000 '

Logging Record:

Original Stimulation: SOF w/ 5,850 gal diesel and 4,400# sand

Workover History: None

Production History: 7/97 PC capacity: 0.0 MCF/D. 7/97 PC cum: 2011.0 MMCF.

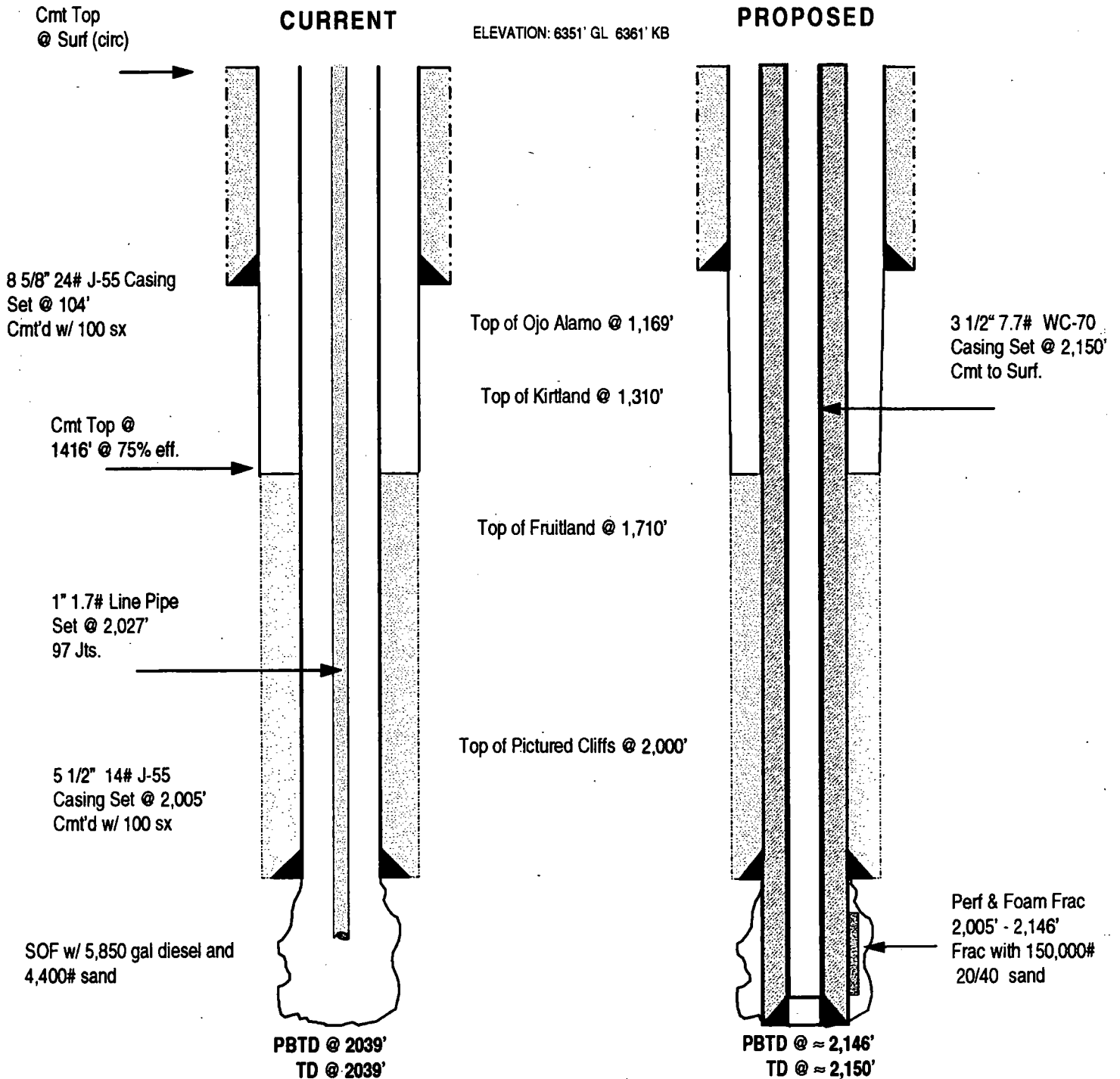
Pipeline: EPNG

Ballard # 4

Section 14 M, T-26-N R-09-W
San Juan, New Mexico

Ballard Pictured Cliffs Wellbore Schematic

ELEVATION: 6351' GL 6361' KB



Canyon Largo Unit # 54
Pertinent Data Sheet

API #: 300390588000

Location: 990 ' FSL & 990 ' FEL, Unit P, Section 24, T25N, R07W, Rio Arriba County, New Mexico

Latitude: 36° - 22.84' **Longitude:** 107° - 31.2'

Field: Ballard PC

Elevation: 6832 ' GL
6845 ' KB

ID: 2771 '

PBTD: 2771 '

DP #: 49077A

Lease: NM 6205-300 (Fed)

GWI: 89.235 %

NRI: 73.898 %

Prop#: 7972000

Spud Date: 12/13/54

Compl Date: 12/23/54

Initial Potential: Initial Potential = 7085 Mcfd
Orig SIP = 685 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
13 3/8	9 5/8	32 H-40	212	150	circ to surf
8 3/4	7	20 J-55	2,639	150	1645' (TS)
6 1/8	openhole		2,639 -2,771		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1 1/4"	2.33 V55 IJ NU 10rd	2,712'	84	4' perf jt on btm

Formation Tops:

Ojo Alamo: 1,900 '
Kirtland Shale: 2,050 '
Fruitland: 2,355 '
Pictured Cliffs: 2,627 '

Logging Record: ES, GRN

Original Stimulation: SOF w/ 10,000 gal oil and 10,000# sd, 1157 Mcfd natural

Workover History: None

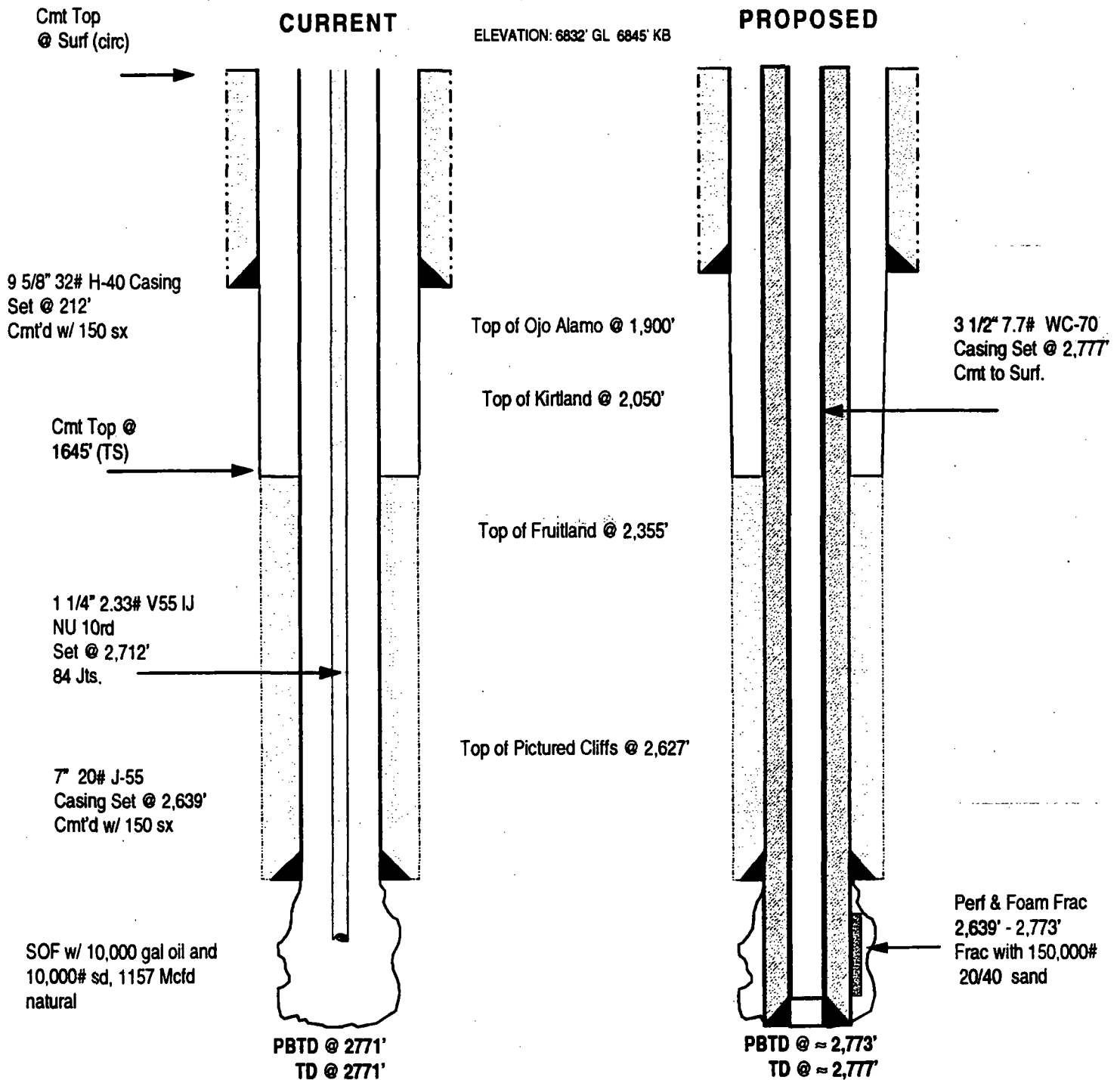
Production History: 5/97 PC capacity: 20.0 MCF/D. 5/97 PC cum: 1919.0 MMCF.

Pipeline: EPNG

Canyon Largo Unit # 54

Section 24 P, T-25-N R-07-W
Rio Arriba, New Mexico

Ballard Pictured Cliffs Wellbore Schematic



Cain # 5
Pertinent Data Sheet

API #: 300450751900

Location: 1060 ' FNL & 800 ' FWL, Unit D, Section 14, T28N, R10W, San Juan County, New Mexico

Latitude: 36° - 39.99'

Longitude: 107° - 52.25'

Field: Aztec PC

Elevation: 5743 ' GL
5753 ' KB

TD: 1980'

PBTD: 1980'

DP #: 7730

Spud Date: 4/19/55

Compl Date: 4/30/55

Lease: SRC 0020291 (Fed)

GWI: 25 %

Initial Potential: 1055 Mcfd

NRI: 20.5 %

Original SIP: 662 psi

Prop#: 20291

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 3/4	8 5/8	24 J-55	197	150	circ to surf
7 7/8	5 1/2	14 J-55	1,923	275	304' @ 75% eff.
4 3/4	openhole		1,923 -1,980		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,961'	93	

Formation Tops:

Ojo Alamo: 779'
Kirtland Shale: 930'
Fruitland: 1,685'
Pictured Cliffs: 1,922'

Logging Record:

Original Stimulation: SOF w/ 13,000 gal oil and 15,000# sand

Workover History: None

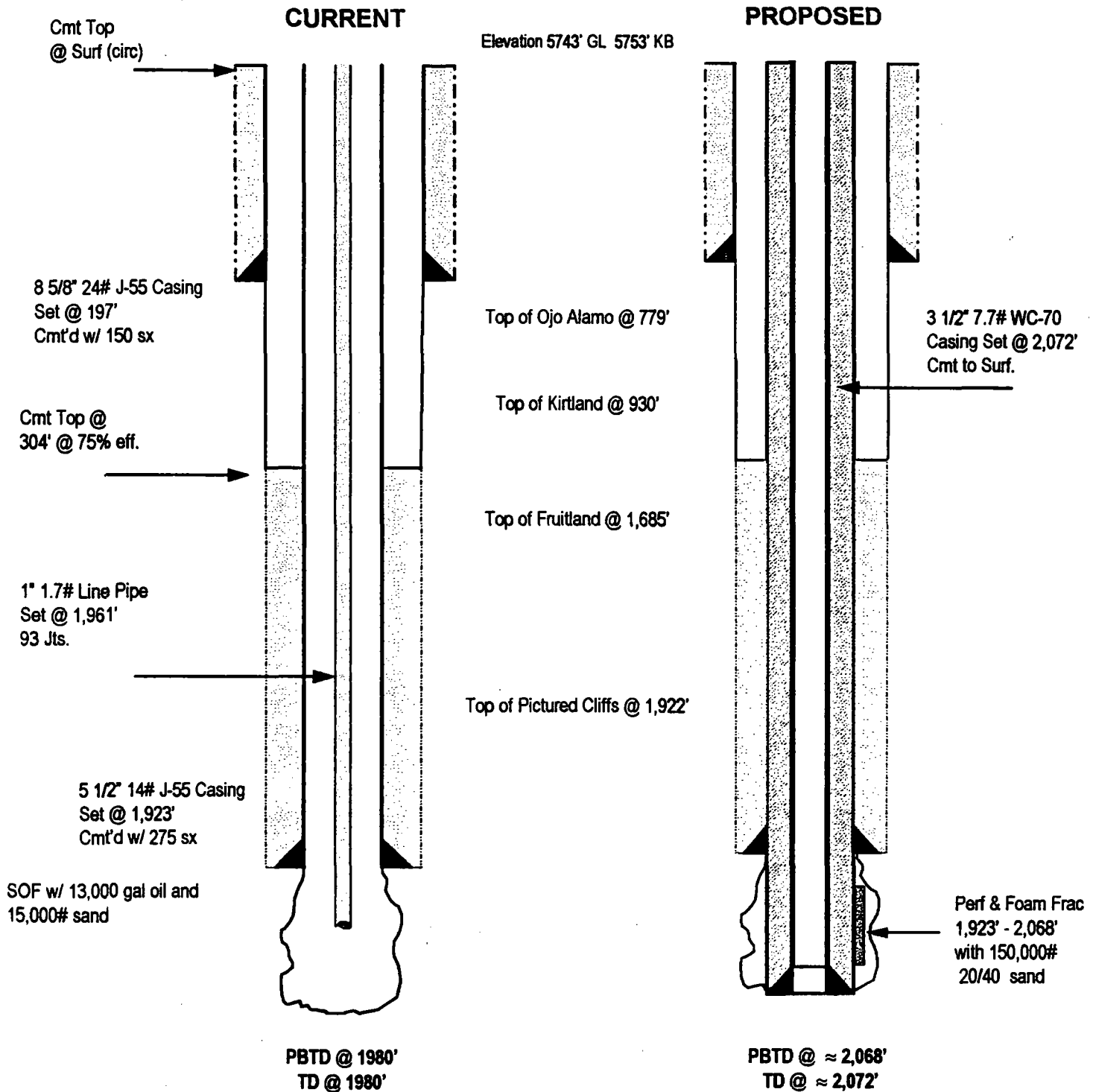
Production History: 7/97 PC capacity: 0 MCF/D. 7/97 PC cum: 692 MMCF.

Pipeline: WFS

Cain # 5

Section 14 D, T-28 -N R-10 -W
San Juan, New Mexico

Aztec Pictured Cliffs Field Wellbore Schematic



Cleveland # 3
Pertinent Data Sheet

API #: 300450640900

Location: 986' FNL & 1639' FWL, Unit C, Section 21, T27N, R09W, San Juan County, New Mexico

Latitude: 36° - 33.89'

Longitude: 107° - 47.79'

Field: Fulcher Kutz PC

Elevation: 6259' GL
6265' KB

TD: 2241'

PBTD: 2241'

DP #: 49323A

Lease: NM 4511 (Fed)

GWl: 100 %

NRI: 85 %

Prop#: 12632900

Spud Date: 6/23/55

Compl Date: 7/11/55

Initial Potential: 3221 Mcfd

Original SIP: 612 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 J-55	101	80	circ to surf
7 7/8	5 1/2	14 J-55	2,162	100	1573' @ 75% eff.
4 3/4	openhole		2,162 -2,241		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,234'	106	

Formation Tops:

Ojo Alamo: 1,195'
Kirtland Shale: 1,352'
Fruitland: 1,854'
Pictured Cliffs: 2,151'

Logging Record:

Original Stimulation: SOF w/ 7,800 gal oil and 11,000# sd

Workover History: None

Production History: 7/97 PC capacity: 10 MCF/D. 7/97 PC cum: 631 MMCF.

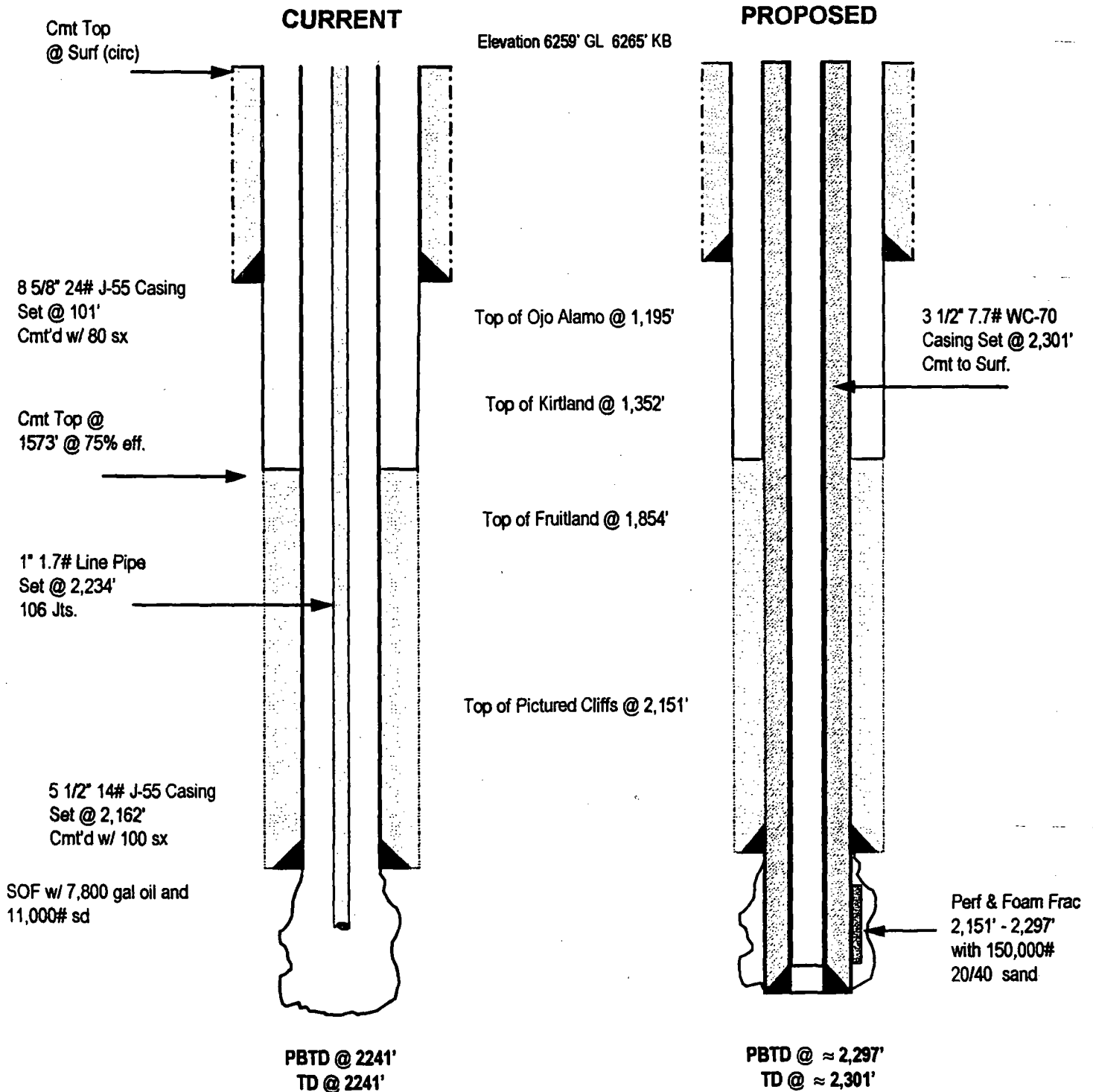
Pipeline: EPNG

File: Q:\area\pcteam\1998\welldata\convert~1\CONVPERT.DOC

Cleveland # 3

Section 21 C, T-27 -N R-09 -W
San Juan, New Mexico

Fulcher Kutz Pictured Cliffs Field Wellbore Schematic



Day M # 4
Pertinent Data Sheet

API #: 300450620400

Location: 790 ' FSL & 900 ' FWL, Unit M, Section 30, T27N, R10W, San Juan County, New Mexico

Latitude: 36 ° - 32.46 ' **Longitude:** 107 ° - 56.56 '

Field: West Kutz PC

Elevation: 6027 ' GL
6037 ' KB

TD: 1642 '

PBTD: 1642 '

DP #: 37221A

Lease: NM 229 (Fed)

GWl: 66.666667 %

NRI: 56.3246 %

Prop#: 71547200

Spud Date: 10/22/55

Compl Date: 10/31/55

Initial Potential: 3105 Mcfd

Original SIP: 450 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 CFI	100	70	circ to surf
7 7/8	5 1/2	14 J-55	1,609	100	1020' @ 75% eff.
4 3/4	openhole		1,609 -1,642		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,615'	77 (est)	

Formation Tops:

Ojo Alamo: 604 ' All Tops are estimated
Kirtland Shale: 715 '
Fruitland: 1,319 '
Pictured Cliffs: 1,620 '

Logging Record:

Original Stimulation: SOF w/ 10,000 gal oil and 11,500# sd, 600 Mcfd natural

Workover History: None

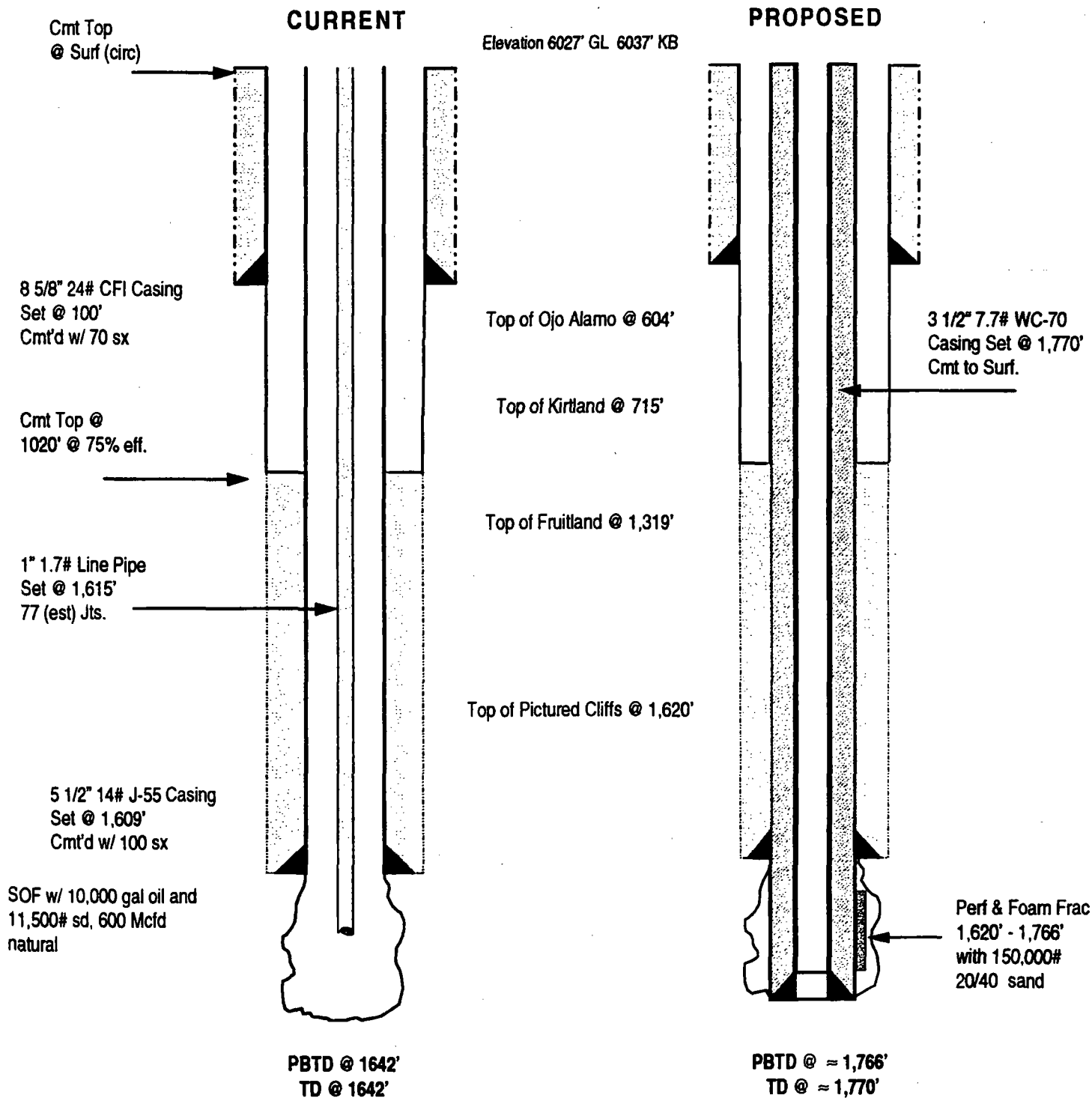
Production History: 7/97 PC capacity: 0 MCF/D. 7/97 PC cum: 2275 MMCF.

Pipeline: WFS

Day M # 4

Section 30 M, T-27 -N R-10 -W
San Juan, New Mexico

West Kutz Pictured Cliffs Field Wellbore Schematic



Douthit Federal # 5
Pertinent Data Sheet

API #: 300450623100

Location: 1650 ' FSL & 1650 ' FWL, Unit K, Section 26, T27N, R11W, San Juan County, New Mexico

Latitude: 36° - 32.61' **Longitude:** 107° - 58.56'

Field: West Kutz PC

Elevation: 6431' GL
6442' KB

TD: 2061'

PBTD: 2061'

DP #: 17505A

Lease: NM 6929 (Fed)

GWI: 50 %

NRI: 43.25 %

Prop#: 71183600

Spud Date: 12/13/55

Compl Date: 12/28/55

Initial Potential: 954 Mcfd

Original SIP: 363 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
13 3/4	9 5/8	32.3 H-40	105	100	circ to surf
8 3/4	5 1/2	14 J-55	2,012	75	1066' (TS)
4 3/4	openhole		2,012 -2,061		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,045'	94	

Formation Tops:

Ojo Alamo: 870'
Kirtland Shale: 1,060'
Fruitland: 1,740'
Pictured Cliffs: 2,008'

Logging Record:

Original Stimulation: SWF w/ 13,100 gal wtr and 10,000# sd, 200 Mcfd natural

Workover History: None

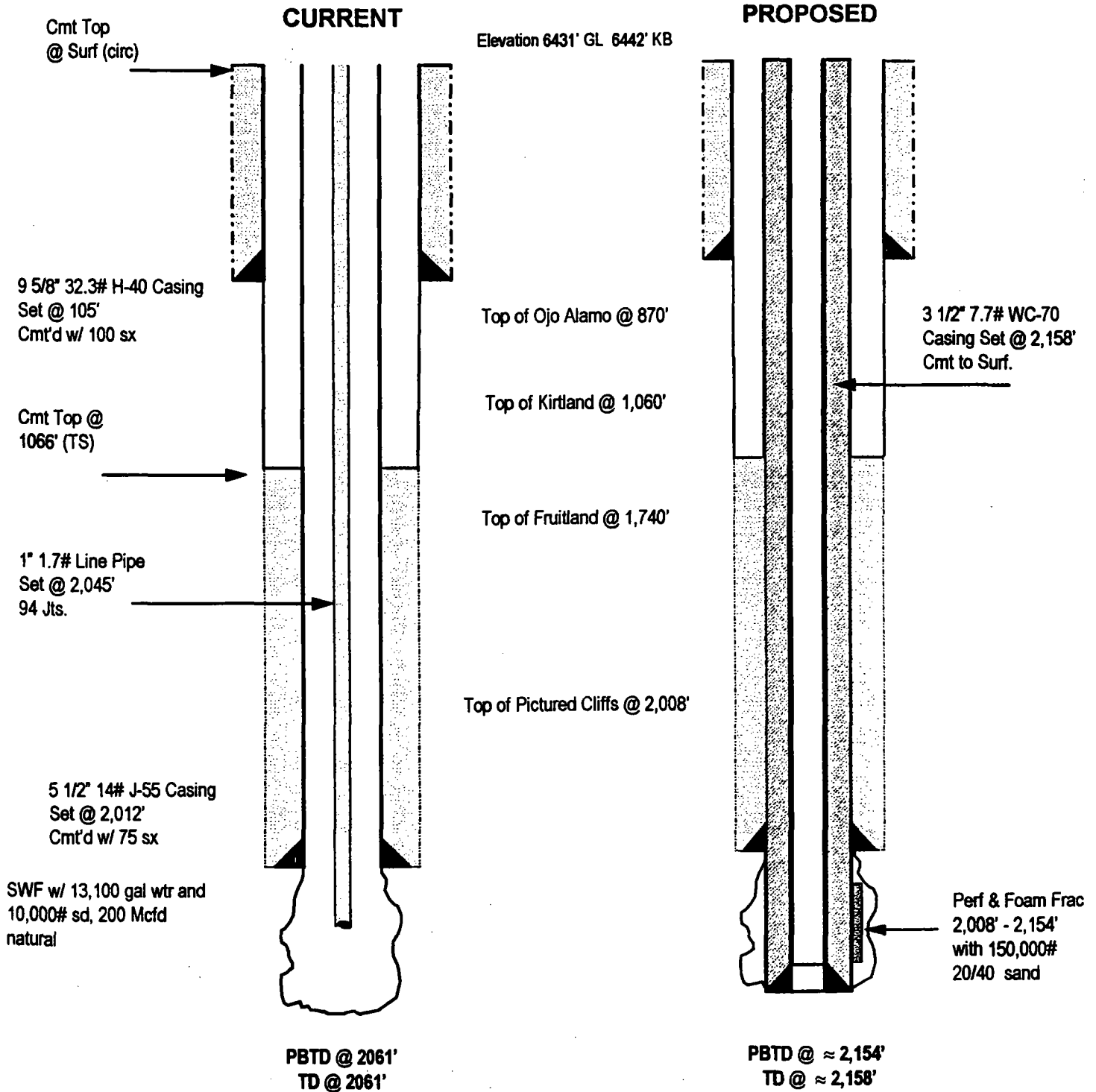
Production History: 7/97 PC capacity: 0 MCF/D. 7/97 PC cum: 1868 MMCF.

Pipeline: WFS

Douthit Federal # 5

Section 26 K, T-27 -N R-11 -W
San Juan, New Mexico

West Kutz Pictured Cliffs Field Wellbore Schematic



Fifield #2
Pertinent Data Sheet

API #: 300450868800

Location: 1650' FSL & 1090' FEL, Unit J, Section 5, T29N, R11W, San Juan County, New Mexico

Latitude: 36° - 45.12'

Longitude: 108° - 0.54'

Field: Aztec PC

Elevation: 5767' GL
5776' KB

TD: 2040'
PBTD: 2040'
DP #: 49103A
Lease: NM 727 (Fed)
GWl: 100 %
NRI: 83.75 %
Prop#: 0-720197-00

Spud Date: 3/9/55

Compl Date: 4/4/55

Initial Potential: 3132 Mcfd

Original SIP: 568 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
13 3/4	9 5/8	25.4 Armco	133	100	circ to surf
8 3/4	5 1/2	15.5 J-55	1,977	150	1045' (TS)
4 3/4	openhole		1,977 -2,040		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,020'	95	

Formation Tops:

Ojo Alamo: 664'
Kirtland Shale: 760'
Fruitland: 1,702'
Pictured Cliffs: 1,969'

Logging Record:

Original Stimulation: SOF w/ 8,770 gal oil and 15,000# sand, 550 Mcfd natural

Workover History: None

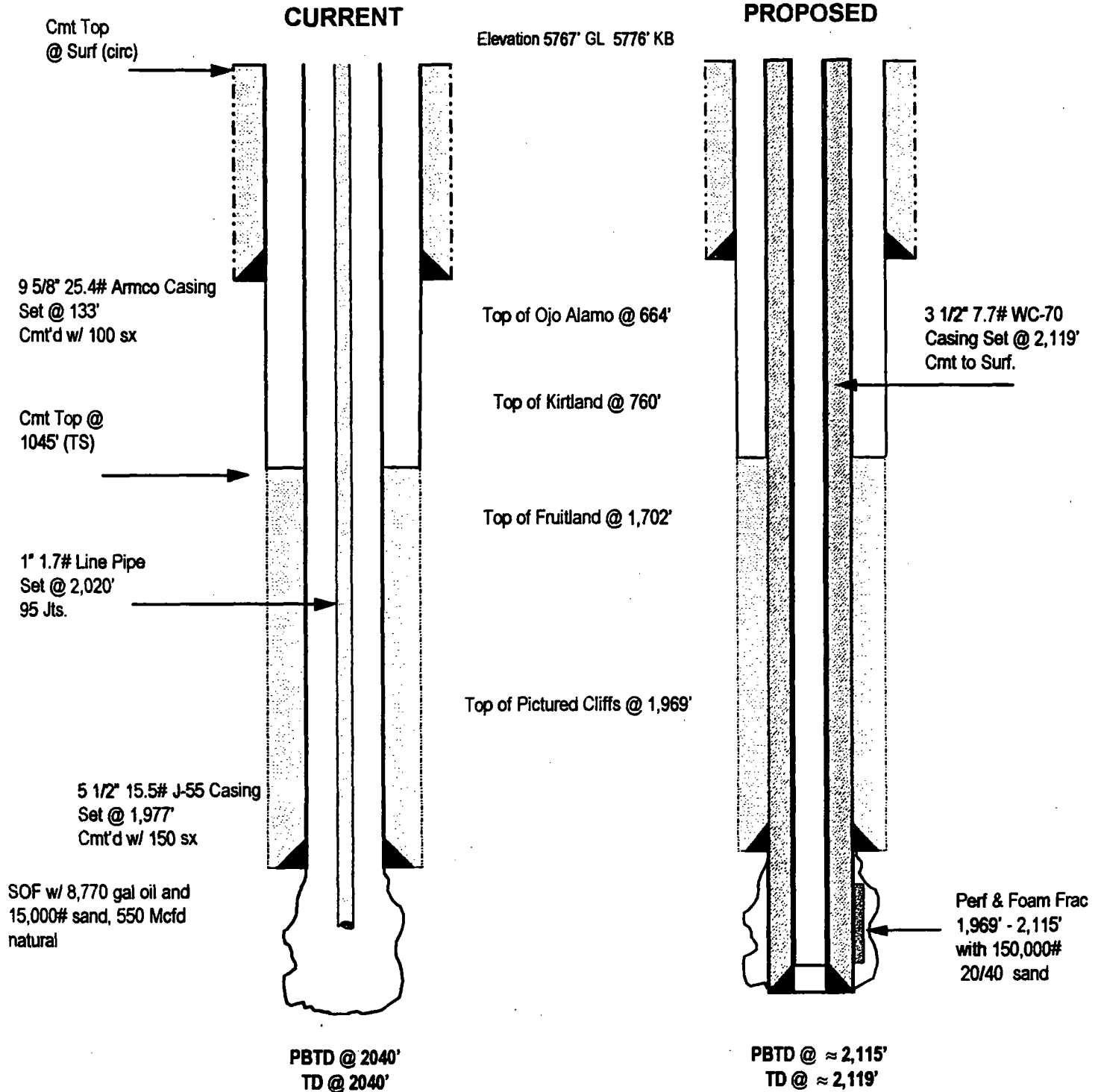
Production History: 7/97 PC capacity: 0 MCF/D. 7/97 PC cum: 902 MMCF.

Pipeline: EPNG

Fifield # 2

Section 5 J, T-29 -N R-11 -W
San Juan, New Mexico

Aztec Pictured Cliffs Field Wellbore Schematic



Huerfanito Unit # 13
Pertinent Data Sheet

API #: 300450600000

Location: 990 ' FSL & 1650 ' FWL, Unit N, Section 01, T26N, R09W, San Juan County, New Mexico

Latitude: 36 ° - 30.75 ' **Longitude:** 107 ° - 44.61 '

Field: Ballard PC

Elevation: 6164 ' GL
6172 ' KB

TD: 1978 '

PBTD: 1978 '

DP #: 49317A

Lease: NM 4519-300 (Fed)

GWl: 84.74 %

NRI: 71.817 %

Prop#: 7970800

Spud Date: 5/24/55

Compl Date: 6/15/55

Initial Potential: Initial Potential = 2237 Mcfd
Orig SIP = 623 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 J-55	100	80	circ to surf
7 7/8	5 1/2	14 J-55	1,896	100	1307' @ 75% eff.
4 3/4	openhole		1,896 -1,978		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,961'	93	

Formation Tops:

Ojo Alamo: 1,090 '
Kirtland Shale: 1,204 '
Fruitland: 1,640 '
Pictured Cliffs: 1,887 '

Logging Record:

Original Stimulation: SOH w/ 165 qts SNG, SOF w/ 8,000 gal oil and 11,000# sd

Workover History: None

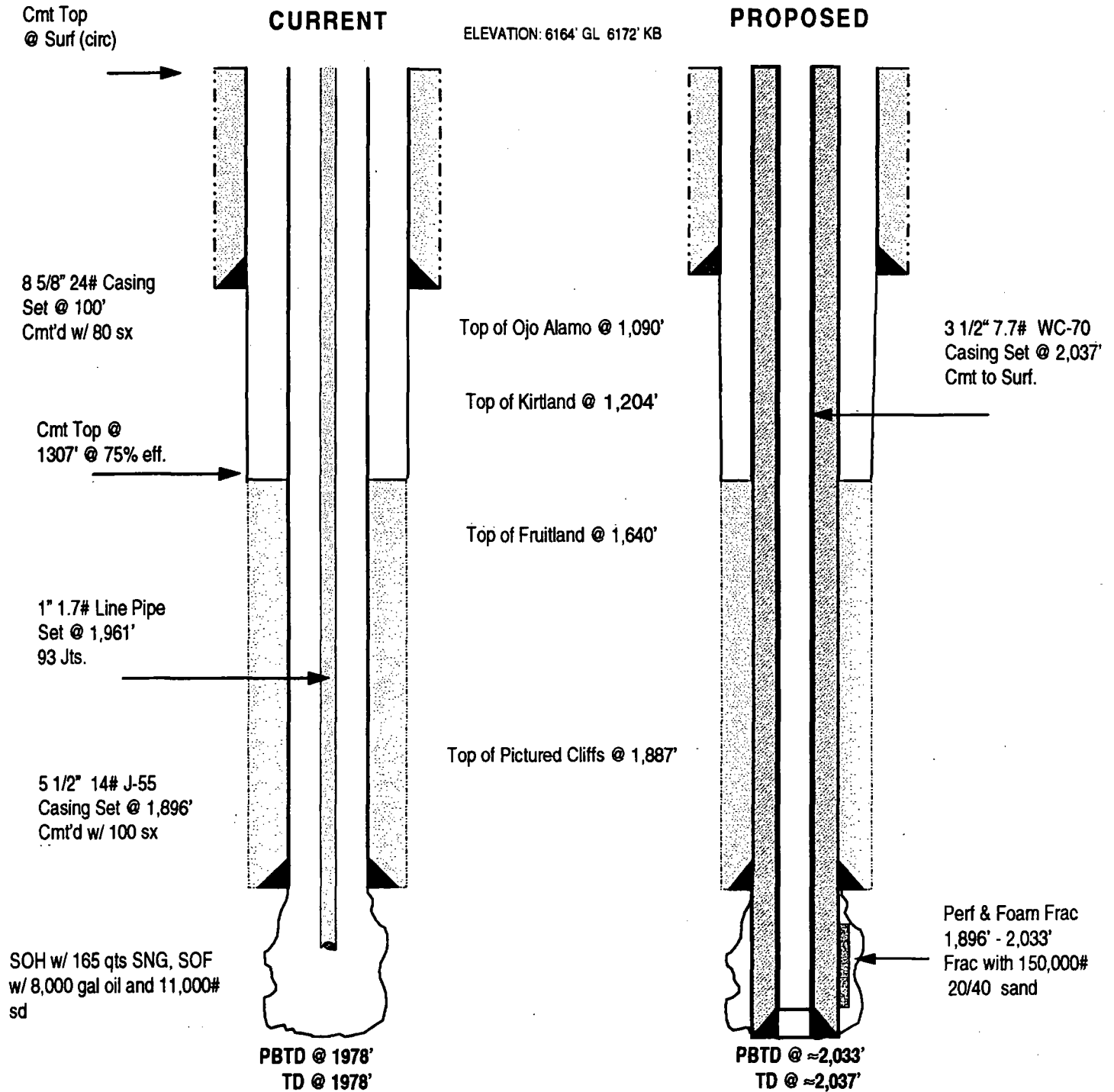
Production History: 4/97 PC capacity: 18.0 MCF/D. 4/97 PC cum: 757.0 MMCF.

Pipeline: EPNG

Huerfanito Unit # 13

Section 1 N, T-26-N R-09-W
San Juan, New Mexico

Ballard Pictured Cliffs Wellbore Schematic



Huerfanito Unit # 14
Pertinent Data Sheet

API #: 300450599900

Location: 990 ' FSL & 1450 ' FEL, Unit O, Section 1, T26N, R09W, San Juan County, New Mexico

Latitude: 36° - 30.74'

Longitude: 107° - 44.18'

Field: Ballard PC

Elevation: 6201 ' GL
6210 ' KB

TD: 2025'

PBTD: 2025'

DP #: 49523A

Lease: NM 4519-300 (Fed)

GWl: 84.738 %

NRI: 71.817 %

Prop#: 0-079708-00

Spud Date: 12/9/55

Compl Date: 2/6/56

Initial Potential: 1003 Mcfd

Original SIP: 643 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 J-55	95	70	circ to surf
7 7/8	5 1/2	14 J-55	1,949	100	1360' @ 75% eff.
4 3/4	openhole		1,949 -2,025		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,016'	91	

Formation Tops:

Ojo Alamo: 1,130'
Kirtland Shale: 1,258'
Fruitland: 1,696'
Pictured Cliffs: 1,949'

Logging Record:

Original Stimulation: SOH w/150 qts SNG, SOF w/ 18,000 gal diesel and 20,000# sand

Workover History: None

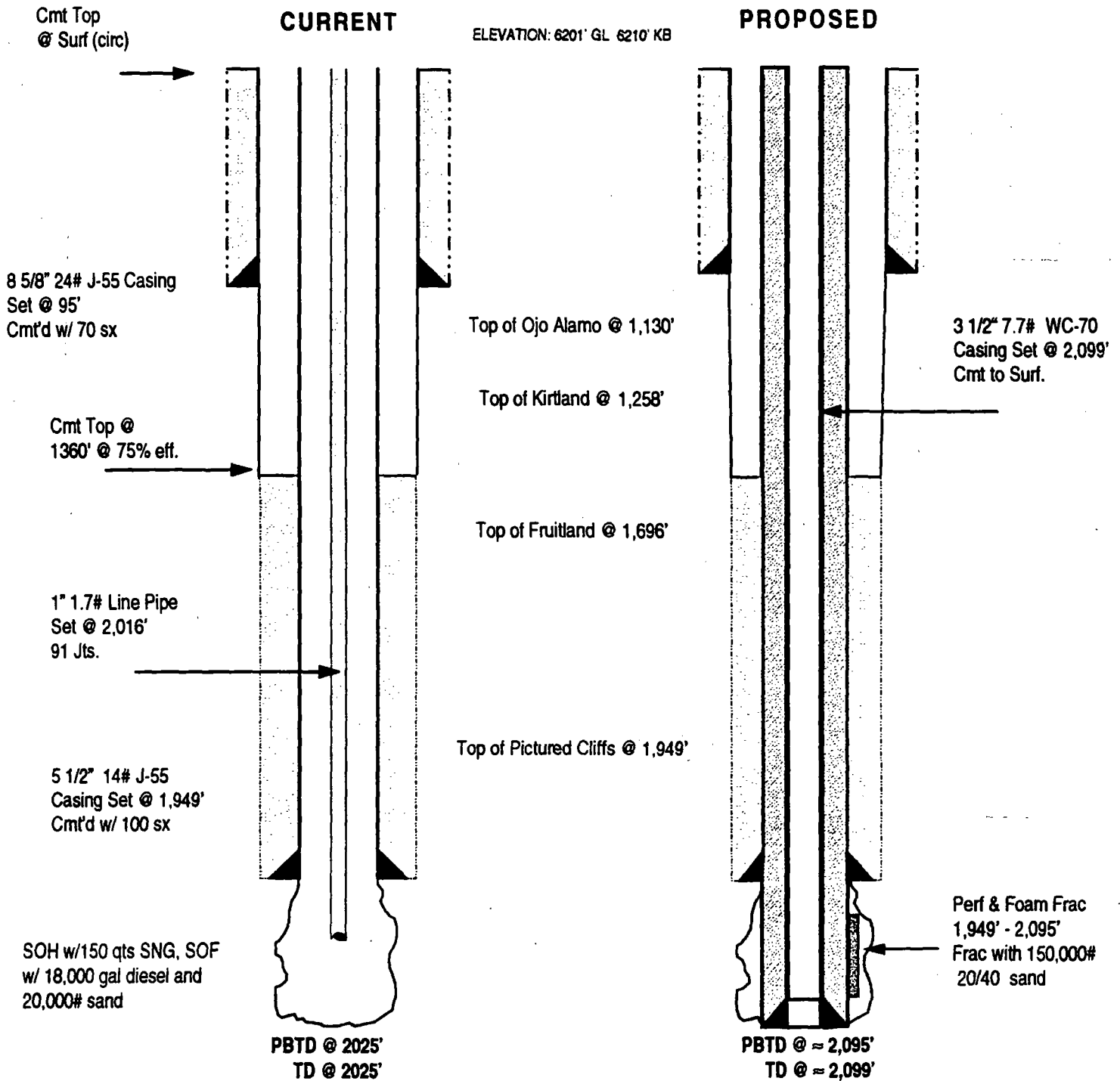
Production History: 7/97 PC capacity: 14.0 MCF/D. 7/97 PC cum: 411.0 MMCF.

Pipeline: EPNG

Huerfanito Unit # 14

Section 1 O, T-26-N R-09-W
San Juan, New Mexico

Ballard Pictured Cliffs Wellbore Schematic



Huerfanito Unit # 16
Pertinent Data Sheet

API #: 300450607100

Location: 990 ' FNL & 990 ' FWL, Unit D, Section 2, T26N, R09W, San Juan County, New Mexico

Latitude: 36 ° - 31.3'

Longitude: 107 ° - 45.79'

Field: Ballard PC

Elevation: 6381 ' GL
6389 ' KB

TD: 2220'

PBTD: 2220'

DP #: 49311A

Lease: NM 4528-300 (State)

GWl: 84.738 %

NRI: 71.817 %

Prop#: 0-079708-00

Spud Date: 6/6/55

Compl Date: 7/19/55

Initial Potential: 2130 Mcfd

Original SIP: 632 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
11	8 5/8	24 J-55	102	80	circ to surf
7 7/8	5 1/2	14 J-55	2,139	100	1550' @ 75% eff.
4 3/4	openhole		2,139 -2,220		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,212'	104	

Formation Tops:

Ojo Alamo: 1,298'
Kirtland Shale: 1,422'
Fruitland: 1,886'
Pictured Cliffs: 2,150'

Logging Record:

Original Stimulation: SOF w/ 7,800 gal oil and 10,000# sand

Workover History: None

Production History: 7/97 PC capacity: 22.0 MCF/D. 7/97 PC cum: 648.0 MMCF.

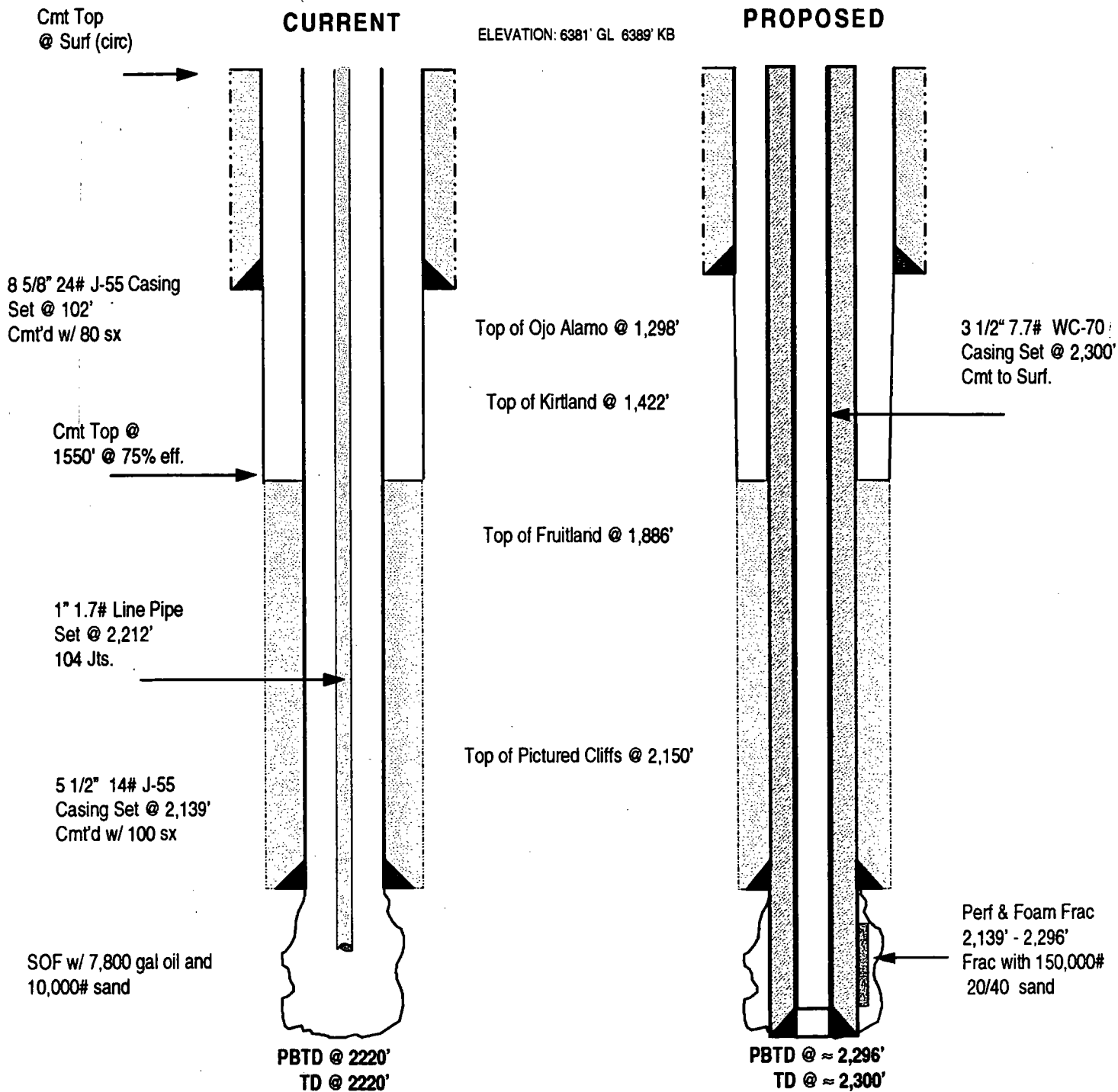
Pipeline: EPNG

Huerfanito Unit # 16

Section 2 D, T-26-N R-09-W
San Juan, New Mexico

Ballard Pictured Cliffs Wellbore Schematic

ELEVATION: 6381' GL 6389' KB



Huerfanito Unit # 21
Pertinent Data Sheet

API #: 300450600200

Location: 990 ' FSL & 1609 ' FEL, Unit O, Section 3, T26N, R09W, San Juan County, New Mexico

Latitude: 36 ° - 30.76 '

Longitude: 107 ° - 46.34 '

Field: Ballard PC

Elevation: 6286 ' GL
6294 ' KB

TD: 2088 '
PBTD: 2088 '
DP #: 49308A
Lease: NM 4519-300 (Fed)
GWl: 84.738 %
NRI: 71.817 %
Prop#: 0-079708-00

Spud Date: 5/29/55

Compl Date: 6/27/55

Initial Potential: 1626 Mcfd

Original SIP: 642 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 J-55	101	80	circ to surf
7 7/8	5 1/2	14 J-55	2,023	100	1434' @ 75% eff.
4 3/4	openhole		2,023 -2,088		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,083'	99	

Formation Tops:

Ojo Alamo: 1,173 '
Kirtland Shale: 1,340 '
Fruitland: 1,834 '
Pictured Cliffs: 2,010 '

Logging Record:

Original Stimulation: SOH w/ 135 qts SNG, SOF w/ 7,900 gal oil and 12,000# sand

Workover History: None

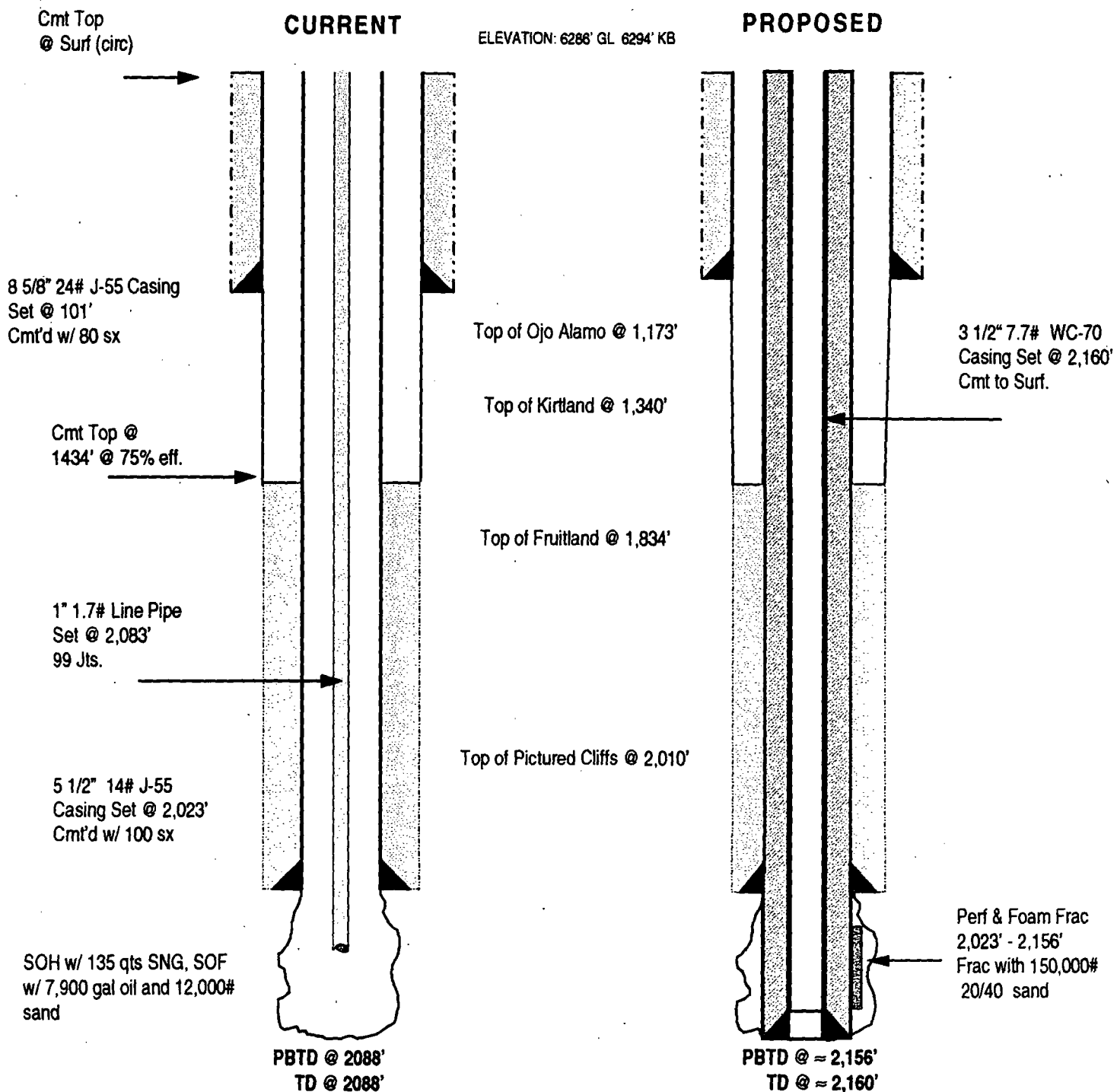
Production History: 7/97 PC capacity: 11.0 MCF/D. 7/97 PC cum: 607.0 MMCF.

Pipeline: EPNG

Huerfanito Unit # 21

Section 3 O, T-26-N R-09-W
San Juan, New Mexico

Ballard Pictured Cliffs Wellbore Schematic



Huerfanito Unit # 27
Pertinent Data Sheet

API #: 300450611100

Location: 1190' FSL & 1190' FWL, Unit M, Section 34, T27N, R09W, San Juan County, New Mexico

Latitude: 36° - 31.66' **Longitude:** 107° - 46.81'

Field: Ballard PC

Elevation: 6530' GL
6545' KB

TD: 2390'

PBTD: 2390'

DP #: 49434A

Lease: Hto PC (Fed)

GWI: 84.737693 %

NRI: 71.81709 %

Prop#: 7970800

Spud Date: 8/26/55

Compl Date: 11/19/55

Initial Potential: 5190 Mcfd

Original SIP: 642 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 J-55	92	80	circ to surf
7 7/8	5 1/2	14 J-55	2,317	100	1728' @ 75% eff.
4 3/4	openhole		2,317 -2,390		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,364'	112	

Formation Tops:

Ojo Alamo: 1,430'
Kirtland Shale: 1,570'
Fruitland: 2,060'
Pictured Cliffs: 2,300'

Logging Record:

Original Stimulation: SOF w/ 17,700 gal oil and 27,500 # sd

Workover History: None

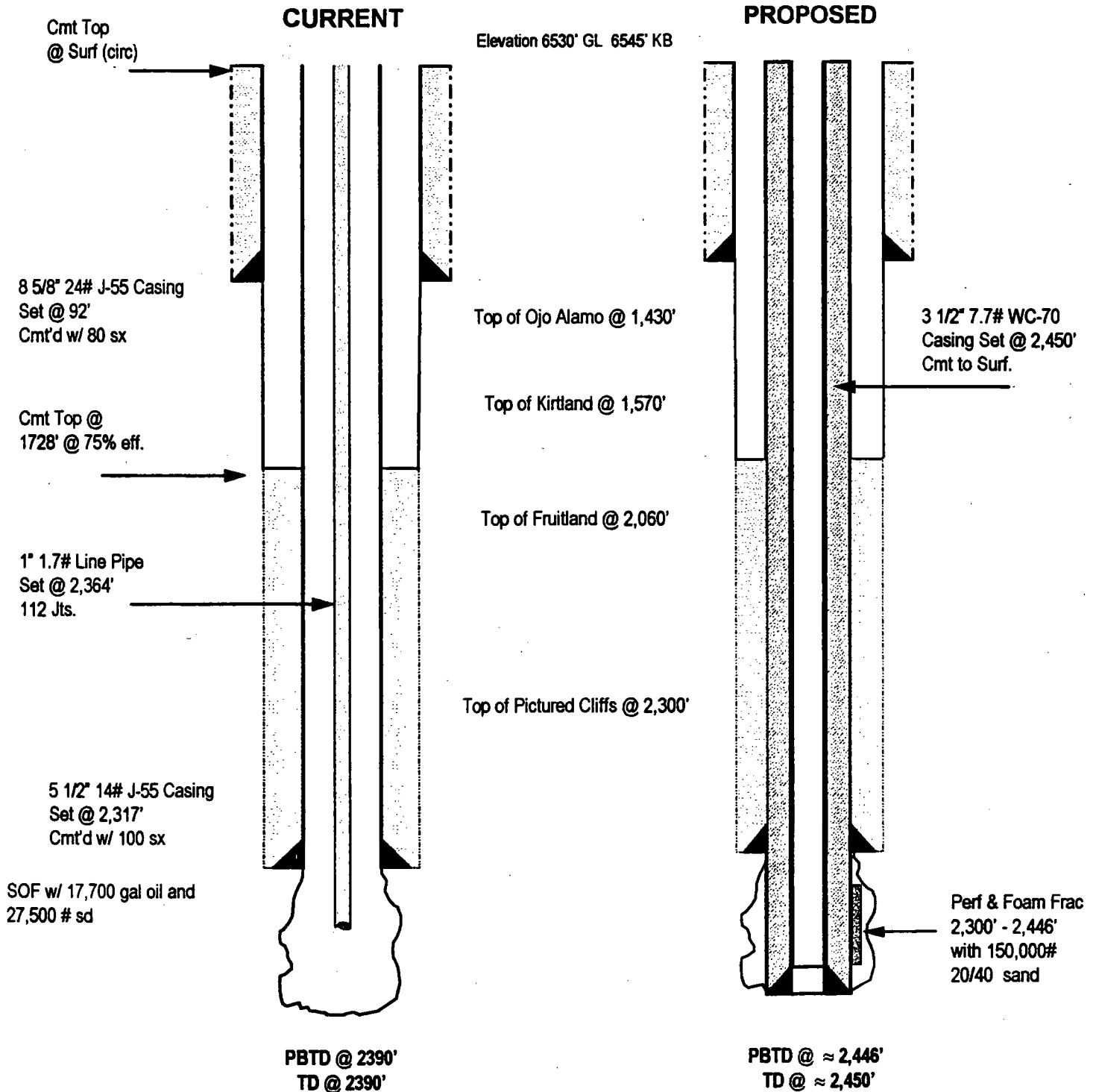
Production History: 7/97 PC capacity: 24 MCF/D. 7/97 PC cum: 784 MMCF.

Pipeline: EPNG

Huerfanito Unit # 27

Section 34 M, T-27 -N R-09 -W
San Juan, New Mexico

Ballard Pictured Cliffs Field Wellbore Schematic



Huerfanito Unit # 30
Pertinent Data Sheet

API #: 300450609700

Location: 990 ' FSL & 1190 ' FEL, Unit P, Section 35, T27N, R09W, San Juan County, New Mexico

Latitude: 36 ° - 31.62 '

Longitude: 107 ° - 45.18 '

Field: Ballard PC

Elevation: 6271 ' GL
6281 ' KB

TD: 2161 '

PBTD: 2161 '

DP #: 49436A

Lease: Hto PC (Fed)

GWI: 84.737693 %

NRI: 71.81709 %

Prop#: 7970800

Spud Date: 9/17/55

Compl Date: 10/29/55

Initial Potential: 776 Mcfd

Original SIP: 584 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 J-55	83	80	circ to surf
7 7/8	5 1/2	14 J-55	2,075	100	1486' @ 75% eff.
4 3/4	openhole		2,075 -2,161		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,155'	102	

Formation Tops:

Ojo Alamo: 1,223' All Tops are Estimated
Kirtland Shale: 1,354'
Fruitland: 1,836'
Pictured Cliffs: 2,056'

Logging Record:

Original Stimulation: SOH w/ 160 qts SNG, SWF w/ 17,787 gal wtr and 30,000# sd

Workover History: None

Production History: 7/97 PC capacity: 5 MCF/D. 7/97 PC cum: 341 MMCF.

Pipeline: EPNG

Ballard Pictured Cliffs Field Wellbore Schematic



Huerfanito Unit # 36
Pertinent Data Sheet

API #: 300450615400

Location: 1780' FNL & 1190' FWL, Unit E, Section 35, T27N, R09W, San Juan County, New Mexico

Latitude: 36° - 32.04'

Longitude: 107° - 45.74'

Field: Ballard PC

Elevation: 6398' GL
6406' KB

TD: 2295'

PBTD: 2295'

DP #: 49438A

Lease: Hto PC (Fed)

GWI: 84.737693 %

NRI: 71.81709 %

Prop#: 7970800

Spud Date: 12/15/55

Compl Date: 1/27/56

Initial Potential: 346 Mcfd

Original SIP: 669 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 J-55	99	70	circ to surf
7 7/8	5 1/2	14 J-55	2,216	100	1627' @ 75% eff.
4 3/4	openhole		2,216 -2,295		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,278'	108 (est)	

Formation Tops:

Ojo Alamo: 1,345'
Kirtland Shale: 1,524'
Fruitland: 1,932'
Pictured Cliffs: 2,210'

Logging Record:

Original Stimulation: SOF w/ 17,750 gal oil and 30,000# sd

Workover History: None

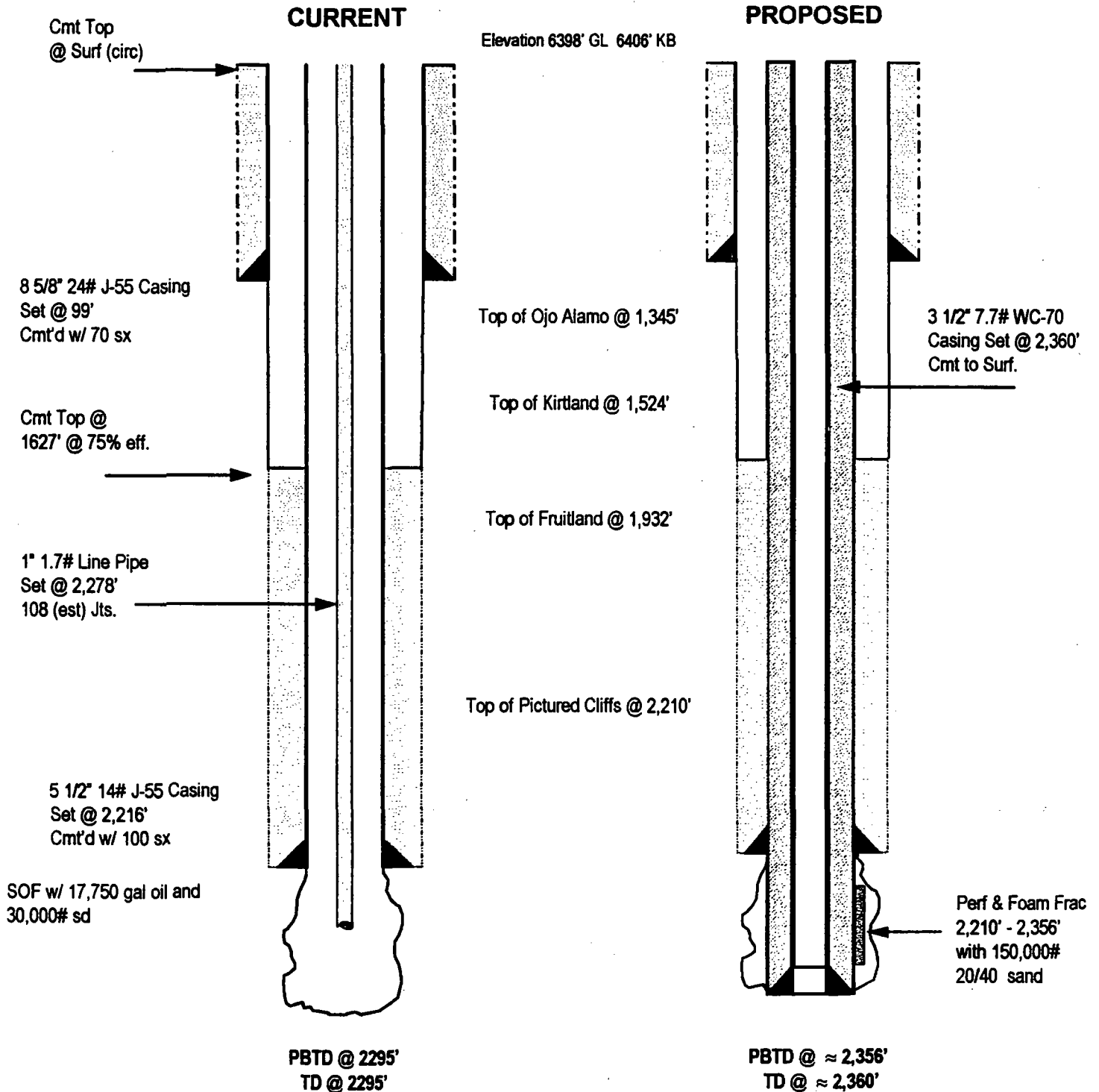
Production History: 7/97 PC capacity: 8 MCF/D. 7/97 PC cum: 682 MMCF.

Pipeline: EPNG

Huerfanito Unit # 36

Section 35 E, T-27 -N R-09 -W
San Juan, New Mexico

Ballard Pictured Cliffs Field Wellbore Schematic



Huerfanito Unit # 67
Pertinent Data Sheet

API #: 300450590500

Location: 990 ' FSL & 1550 ' FEL, Unit O, Section 12, T26N, R09W, San Juan County, New Mexico

Latitude: 36 ° - 29.87 '

Longitude: 107 ° - 44.21 '

Field: Ballard PC

Elevation: 6231 ' GL
6242 ' KB

TD: 2019 '

PBTD: 2019 '

DP #: 49076A

Lease: NM 4520-300 (Fed)

GWl: 84.738 %

NRI: 71.817 %

Prop#: 0-079708-00

Spud Date: 12/14/54

Compl Date: 12/28/54

Initial Potential: Initial Potential = 1443 Mcfd
Orig SIP = 666 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csq Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 J-55	105	100	circ to surf
7 7/8	5 1/2	14 J-55	1,955	100	1397' @ 75% eff.
4 3/4	openhole		1,955 -2,019		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,985'	95	

Formation Tops:

Ojo Alamo: 1,140 '
Kirtland Shale: 1,245 '
Fruitland: 1,655 '
Pictured Cliffs: 1,942 '

Logging Record:

Original Stimulation: SOH w/ 150 qts SNG, SOF w/ 7,100 gal diesel and 11,400# sand

Workover History: None

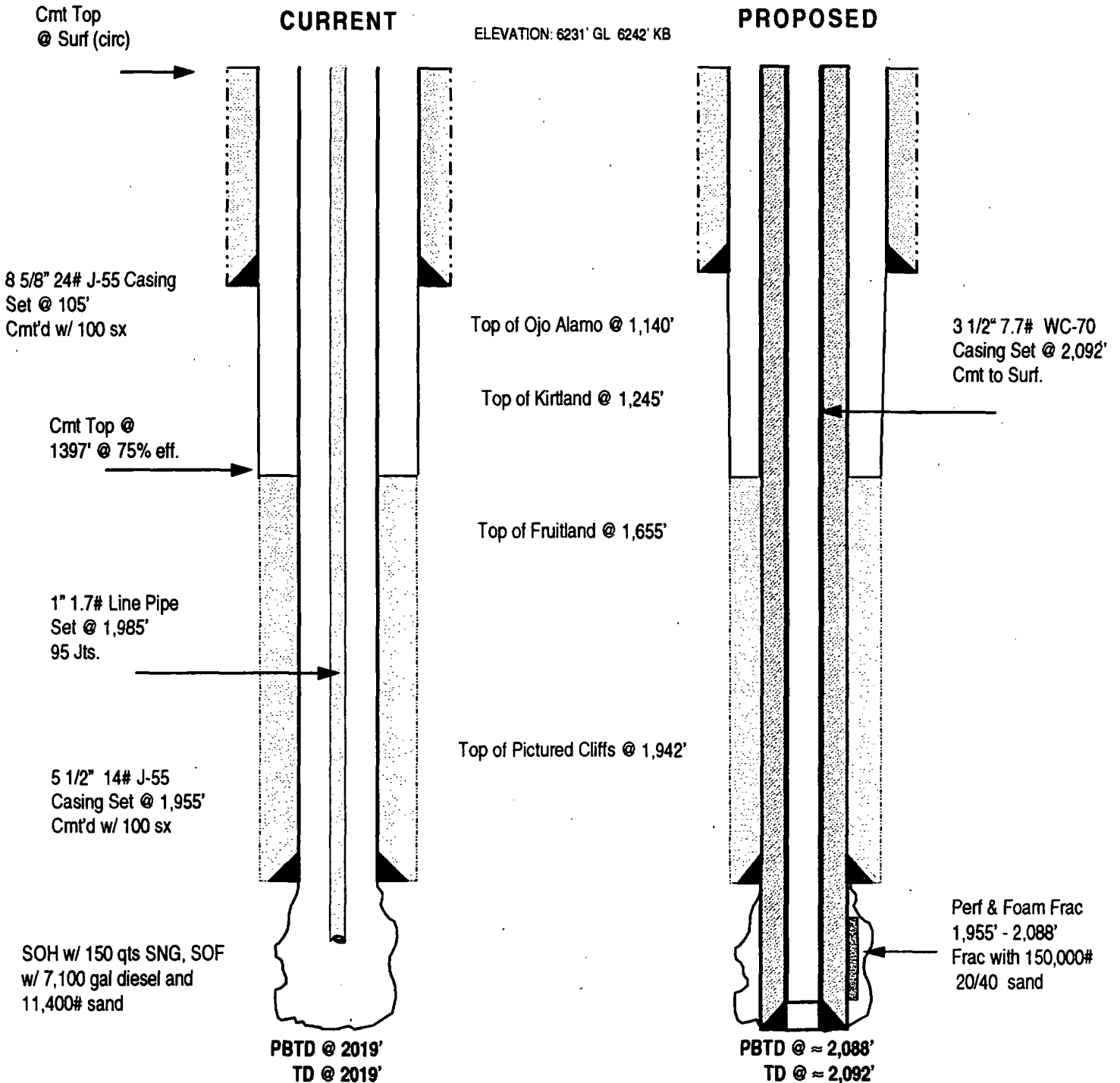
Production History: 7/97 PC capacity: 5.0 MCF/D. 7/97 PC cum: 734.0 MMCF.

Pipeline: EPNG

Huerfanito Unit # 67

Section 12 O, T-26-N R-09-W
San Juan, New Mexico

Ballard Pictured Cliffs Wellbore Schematic



Huerfano Unit # 15
Pertinent Data Sheet

API #: 300450618700

Location: 790' FNL & 790' FEL, Unit A, Section 32, T27N, R10W, San Juan County, New Mexico

Latitude: 36° - 32.21' **Longitude:** 107° - 54.72'

Field: West Kutz PC

Elevation: 6091' GL
6101' KB

TD: 1805'

PBTD: 1805'

DP #: 50947A

Lease: NM 4227 (State)

GWI: 62.554764 %

NRI: 45.35109 %

Prop#: 7971100

Spud Date: 3/31/53

Compl Date: 5/25/53

Initial Potential: 742 Mcfd

Original SIP: 444 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	28 J-55	110	75	circ to surf
7 7/8	5 1/2	17 J-55	1,769	75	1327' @ 75% eff.
4 3/4	openhole		1,769 -1,805		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1 1/4"	2.3 Line Pipe	1,800'	86	11 perf jt on btm

Formation Tops:

Ojo Alamo: 711'
Kirtland Shale: 875'
Fruitland: 1,455'
Pictured Cliffs: 1,773'

Logging Record:

Original Stimulation: SOF w/ 5,000 gal oil and 6,600# sd, 132 Mcfd natural

Workover History: None

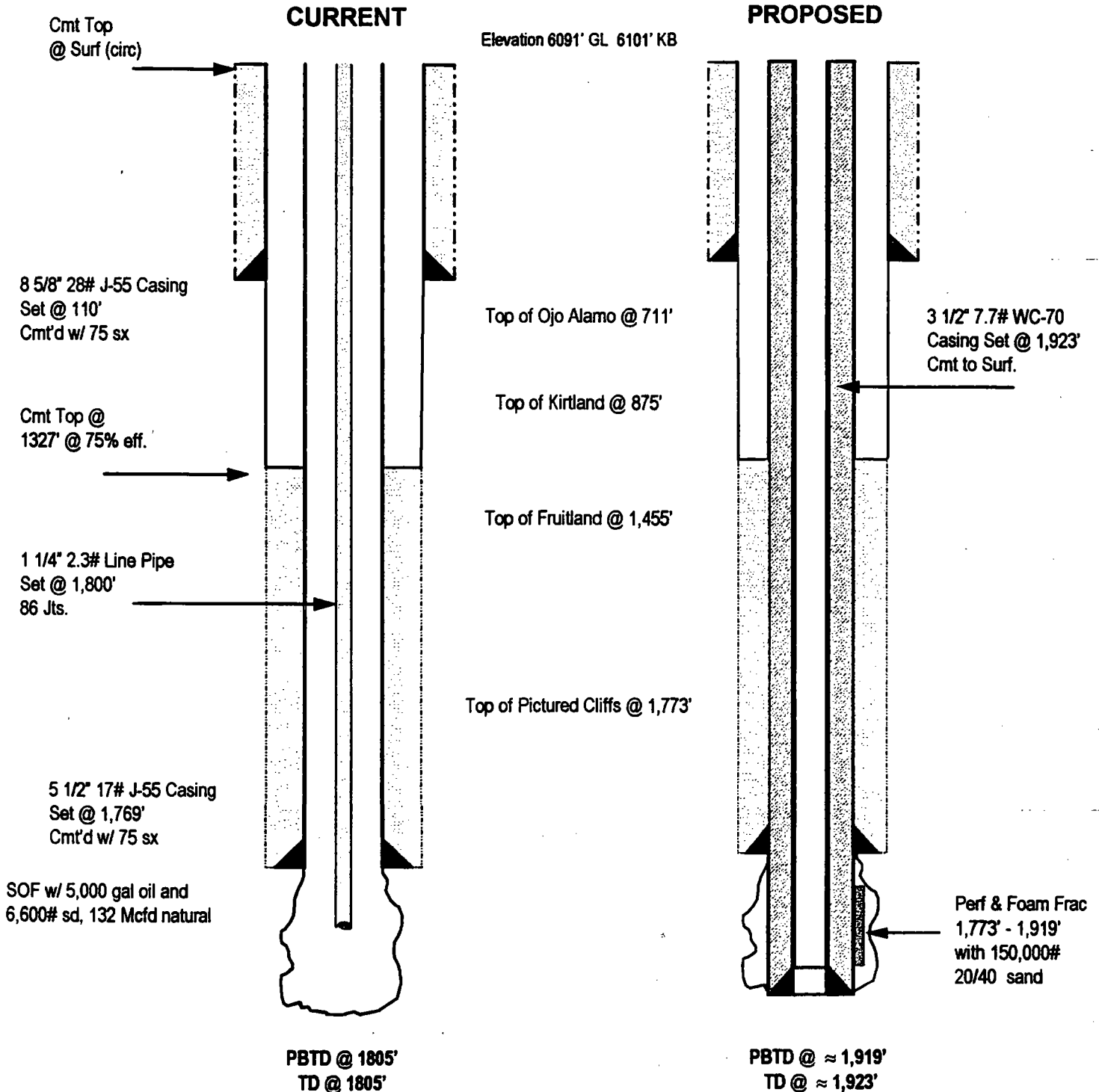
Production History: 7/97 PC capacity: 1 MCF/D. 7/97 PC cum: 535 MMCF.

Pipeline: EPNG

Huerfano Unit # 15

Section 32 A, T-27 -N R-10 -W
San Juan, New Mexico

West Kutz Pictured Cliffs Field Wellbore Schematic



Huerfano Unit # 21
Pertinent Data Sheet

API #: 300450596900

Location: 990' FNL & 1650' FEL, Unit B, Section 9, T26N, R10W, San Juan County, New Mexico

Latitude: 36° - 30.43'

Longitude: 107° - 53.85'

Field: West Kutz PC

Elevation: 6678' GL
6690' KB

TD: 2280'

PBTD: 2280'

DP #: 50943A

Lease: NM 6122-000 (Fed)

GWI: 62.55 %

NRI: 45.35 %

Prop#: 0-079711-00

Spud Date: 4/11/53

Compl Date: 4/22/53

Initial Potential: Initial Potential = 1700 Mcfd
Orig SIP = 458 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	28 Germany	118	75	circ to surf
7 7/8	5 1/2	17 Chester	2,250	75	1808' @ 75% eff.
4 3/4	openhole		2,250 -2,280		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1 1/4"	2.3 Line Pipe	2,280'	109	11' perf jt on btm

Formation Tops:

Ojo Alamo: 1,260'
Kirtland Shale: 1,420'
Fruitland: 1,957'
Pictured Cliffs: 2,238'

Logging Record:

Original Stimulation: SOF w/ 5,000 gal oil and 4600# sand

Workover History: None

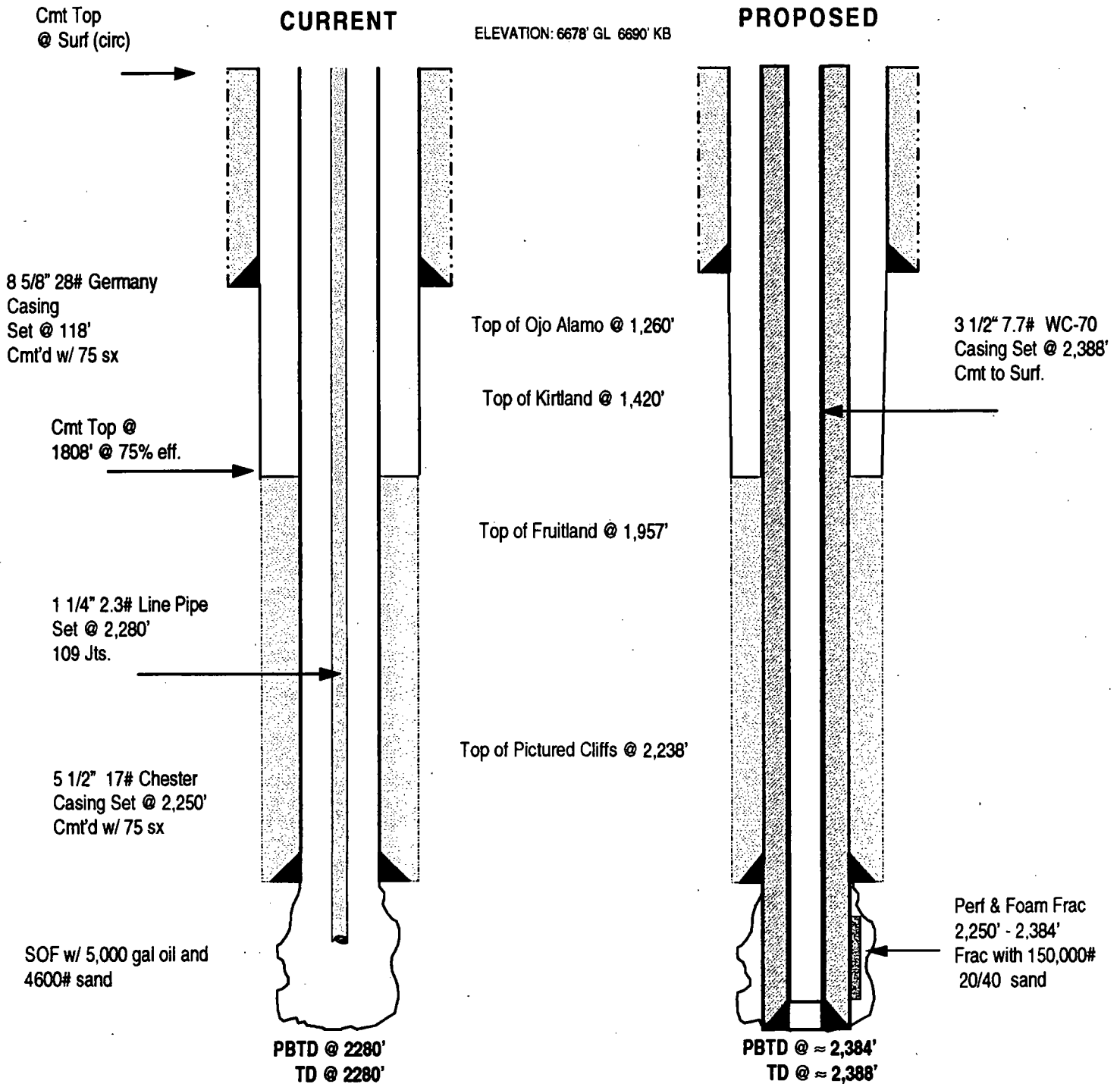
Production History: 7/97 PC capacity: 3.0 MCF/D. 7/97 PC cum: 761.0 MMCF.

Pipeline: EPNG

Huerfano Unit # 21

Section 9 B, T-26-N R-10-W
San Juan, New Mexico

West Kutz Pictured Cliffs Wellbore Schematic



Huerfano Unit # 27
Pertinent Data Sheet

API #: 300450578600

Location: 790' FNL & 790' FEL, Unit A, Section 23, T26N, R09W, San Juan County, New Mexico

Latitude: 36° - 28.72' **Longitude:** 107° - 45.12'

Field: Ballard PC

Elevation: 6353' GL
6363' KB

TD: 2062'
PBTD: 2062'
DP #: 49376A
Lease: NM 6045-300 (Fed)
GWI: 62.55 %
NRI: 45.35 %
Prop#: 0-079711-00

Spud Date: 8/27/54

Compl Date: 12/8/54

Initial Potential: Initial Potential = 1808 Mcfd
Orig SIP = 643 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	22.7 Armco	118	75	circ to surf
7 7/8	5 1/2	14 J-55	2,012	75	1570' @ 75% eff.
4 3/4	openhole		2,012 -2,062		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1 1/4"	2.4 J-55 EUE	1,987'	65	10' perf jt on btm

Formation Tops:

Ojo Alamo: 1,230'
Kirtland Shale: 1,329'
Fruitland: 1,824'
Pictured Cliffs: 2,012'

Logging Record:

Original Stimulation: SOF w/ 4,000 gal oil and 4,000# sand

Workover History: None

Production History: 7/97 PC capacity: 1.0 MCF/D. 7/97 PC cum: 1990.0 MMCF.

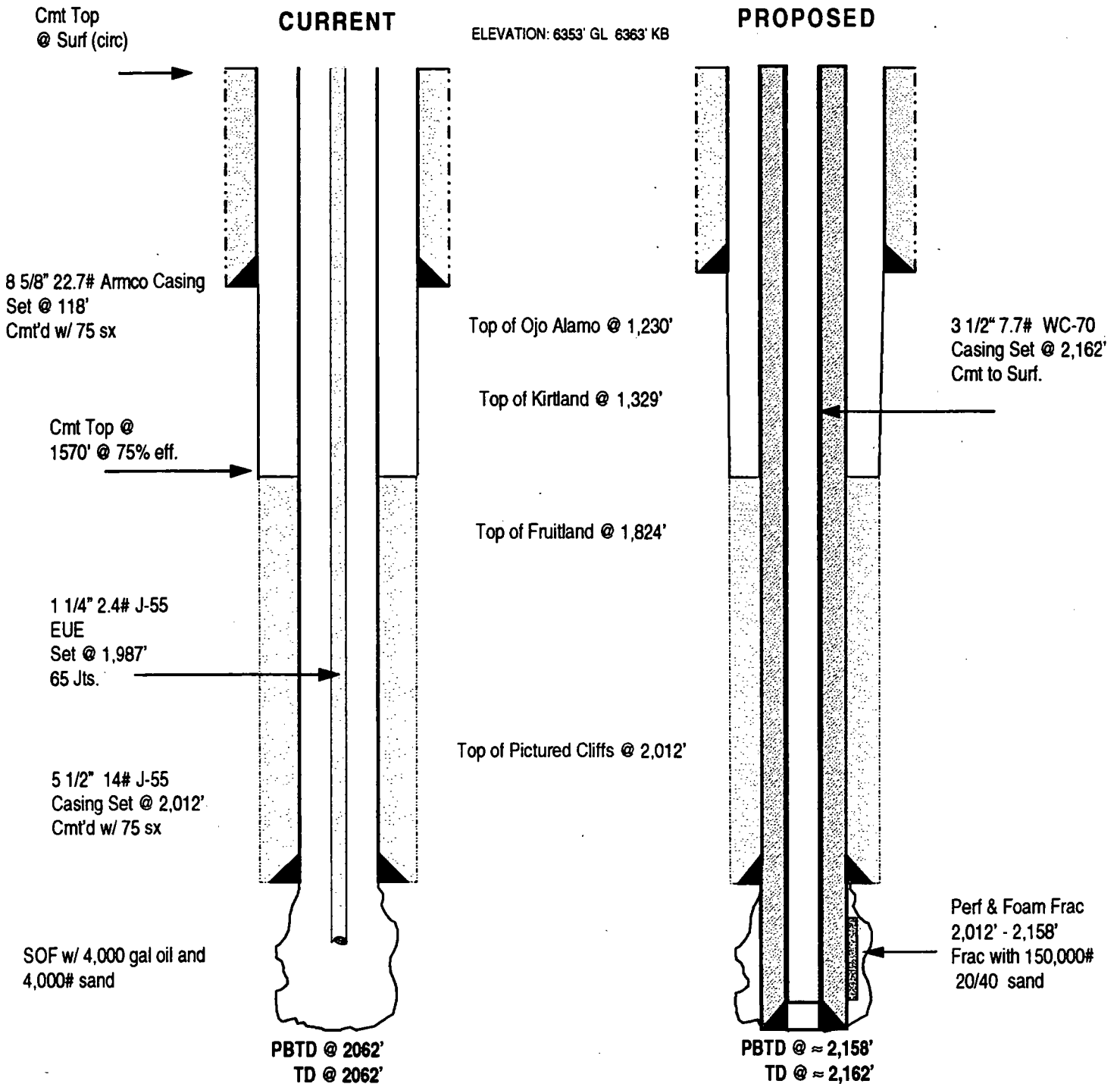
Pipeline: EPNG

Huerfano Unit # 27

Section 23 A, T-26-N R-09-W
San Juan, New Mexico

Ballard Pictured Cliffs Wellbore Schematic

ELEVATION: 6353' GL 6363' KB



Huerfano Unit # 28
Pertinent Data Sheet

API #: 300450591100

Location: 940' FSL & 940' FEL, Unit P, Section 9, T26N, R09W, San Juan County, New Mexico

Latitude: 36° - 29.88'

Longitude: 107° - 47.27'

Field: Ballard PC

Elevation: 6385' GL
6395' KB

TD: 2122'

PBTD: 2122'

DP #: 49397A

Lease: Huerfano Unit

GWl: 62.55 %

NRI: 45.35 %

Prop#: 0-079711-00

Spud Date: 9/7/54

Compl Date: 12/8/54

Initial Potential: 3300 Mcfd

Original SIP: 632 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	22.7 Armco	106	75	circ to surf
7 7/8	5 1/2	14 J-55	2,076	75	1487' @ 75% eff.
4 3/4	openhole		2,076 -2,122		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1 1/4"	2.4 H-40 EUE	2,098'	113	10' perf jt on btm

Formation Tops:

Ojo Alamo: 1,235'
Kirtland Shale: 1,340'
Fruitland: 1,780'
Pictured Cliffs: 2,070'

Logging Record:

Original Stimulation: SOF w/ 10,000 gal diesel oil and 8,200# sand

Workover History: None

Production History: 7/97 PC capacity: 5.0 MCF/D. 7/97 PC cum: 1412.0 MMCF.

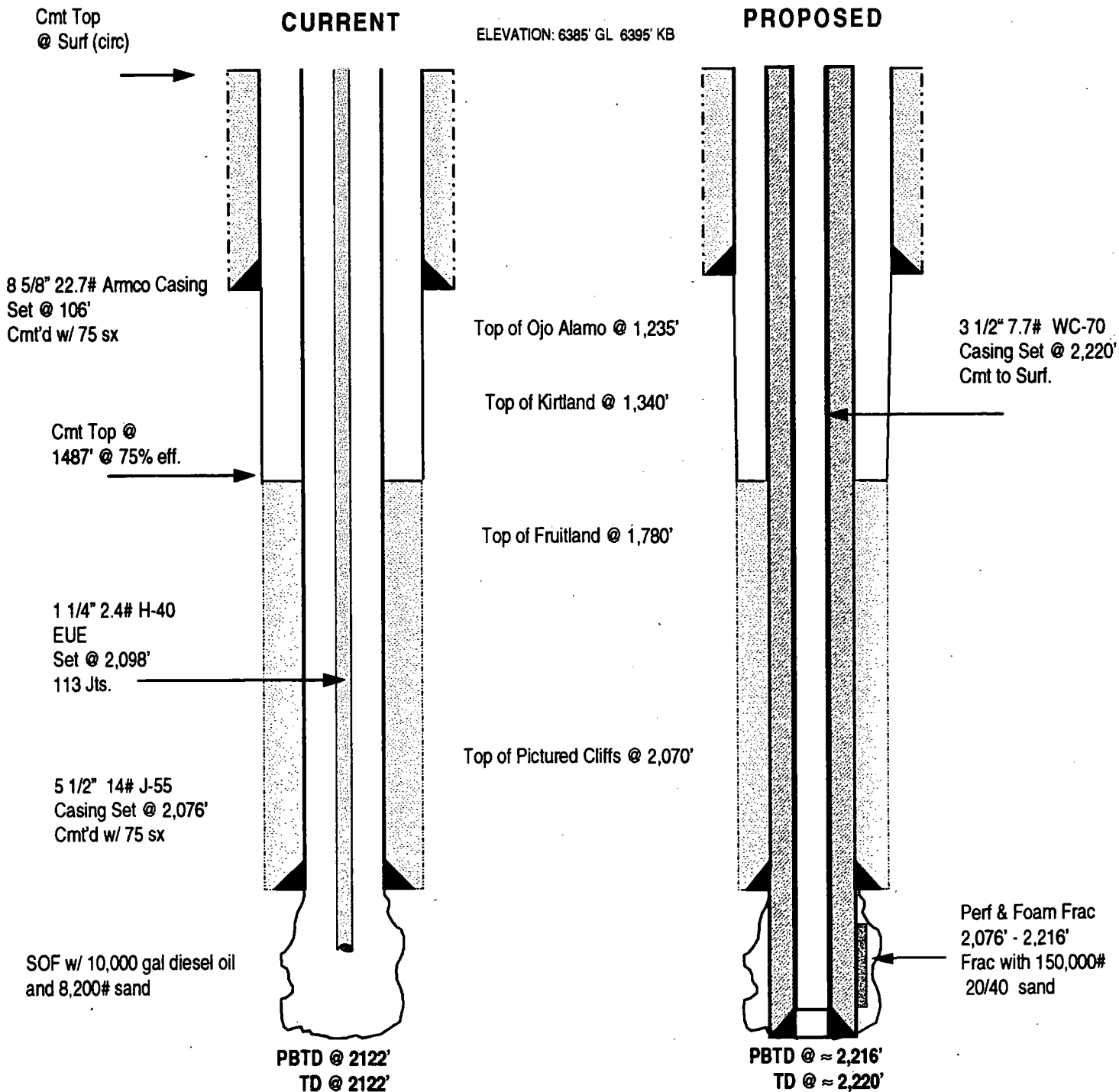
Pipeline: EPNG

Huerfano Unit # 28

Section 9 P, T-26-N R-09-W
San Juan, New Mexico

Ballard Pictured Cliffs Wellbore Schematic

ELEVATION: 6385' GL 6395' KB



Hughes # 1
Pertinent Data Sheet

API #: 300450735800

Location: 990 ' FNL & 1650 ' FEL, Unit B, Section 23, T28N, R11W, San Juan County, New Mexico

Latitude: 36 ° - 39.13 '

Longitude: 107 ° - 58.16 '

Field: Fulcher Kutz PC

Elevation: 5761 ' GL
5771 ' KB

TD: 1849 '

PBTD: 1849 '

DP #: 30005

Lease: SRC 0020233 (Fed)

GWI: 25 %

NRI: 21.75 %

Prop#: 0-020233

Spud Date: 7/9/50

Compl Date: 7/22/50

Initial Potential: 1340 Mcfd

Original SIP: 337 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	28 J-55	95	50	circ to surf
7 7/8	5 1/2	14 J-55	1,758	100	1169' @ 75% eff.
4 3/4	openhole		1,758 -1,849		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1 1/2"	2.9 EUE	1,794'	54	SN 1 jt off btm

Formation Tops:

Ojo Alamo: 635' All Tops are Estimated
Kirtland Shale: 767'
Fruitland: 1,477'
Pictured Cliffs: 1,755'

Logging Record:

Original Stimulation: SOH w/ 200 qts SNG

Workover History: 5/11/95: MIRU. TOOH w/ 1 inch tbg. TIH w/1-1/2. Return to production.

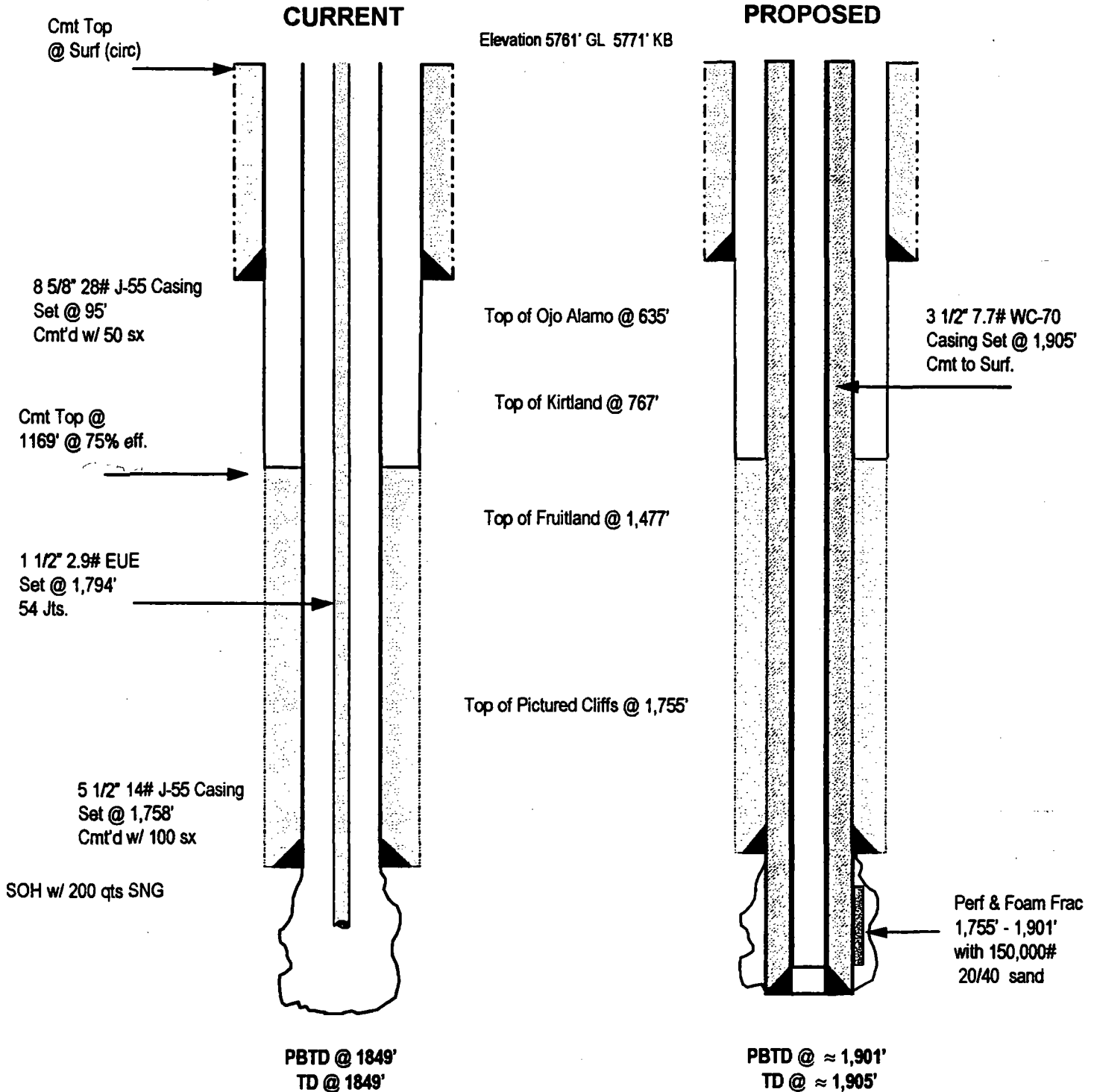
Production History: 7/97 PC capacity: 18 MCF/D. 7/97 PC cum: 702 MMCF.

Pipeline: BROG

Hughes # 1

Section 23 B, T-28 -N R-11 -W
San Juan, New Mexico

Fulcher Kutz Pictured Cliffs Field Wellbore Schematic



Mangum SRC # 1
Pertinent Data Sheet

API #: 300450784200

Location: 2310 ' FSL & 990 ' FEL, Unit I, Section 29, T29N, R11W, San Juan County, New Mexico

Latitude: 36° - 41.75' **Longitude:** 108° - 0.52'

Field: Fulcher Kutz PC

Elevation: 5401' GL
5411' KB

TD: 1597'

PBTD: 1597'

DP #: 46227

Spud Date: 5/10/47

Compl Date: 6/4/47

Lease: 02300400 (Fed)

GWI: 43.75 %

Initial Potential: 2750 Mcfd

NRI: 38.28125 %

Original SIP: 492 psi

Prop#: 0-0023004

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
17 1/2	16	60 ?	35	35	circ to surf
7 7/8	5 1/2	14 J-55	1,493	35	1287' @ 75% eff.
4 3/4	openhole		1,493 -1,597		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,565'	75 (est)	

Formation Tops:

Ojo Alamo: 310' All Tops are Estimated
Kirtland Shale: 394'
Fruitland: 1,261'
Pictured Cliffs: 1,490'

Logging Record:

Original Stimulation: SOH w/ 70 qts SNG

Workover History: None

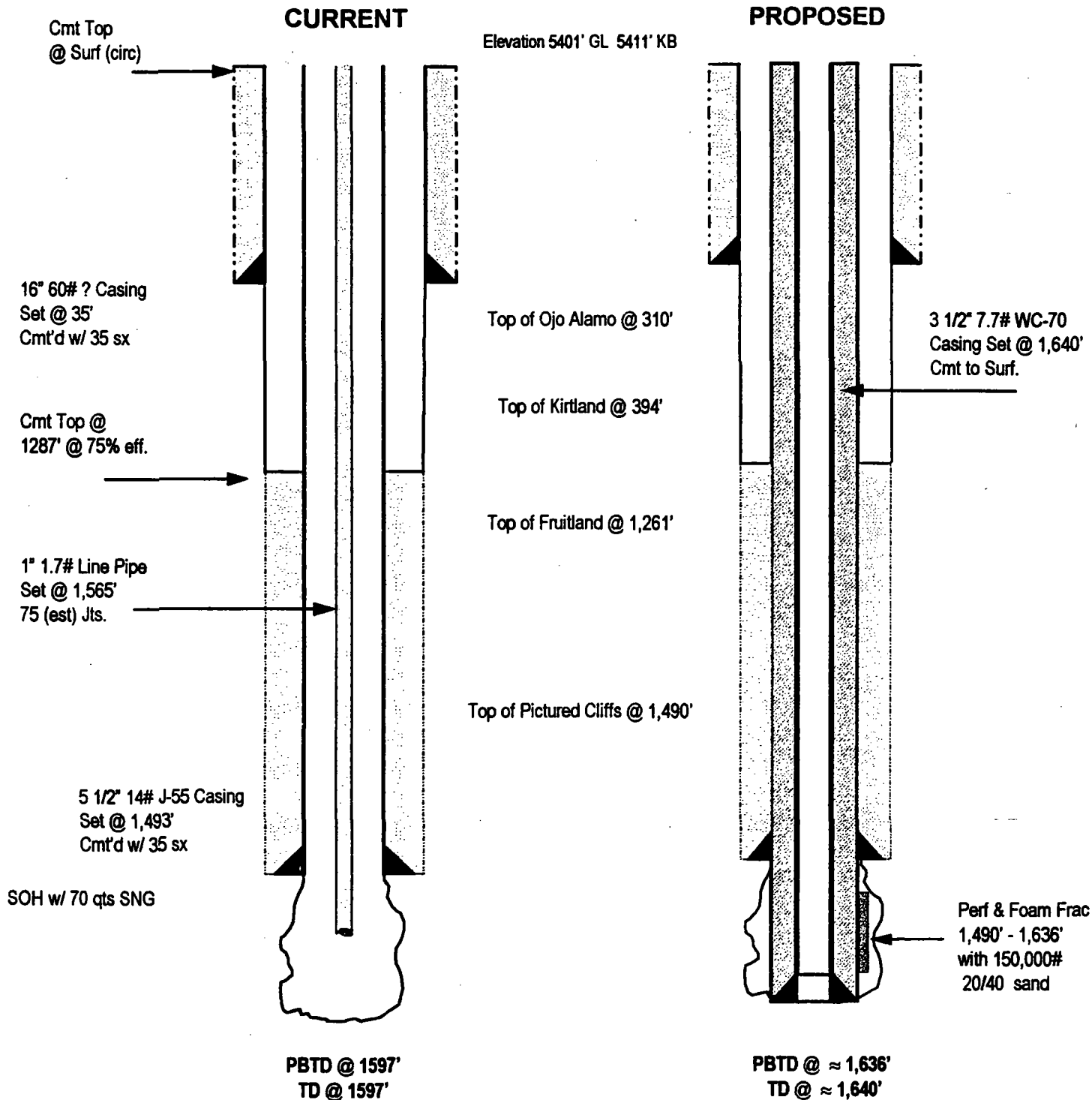
Production History: 7/97 PC capacity: 10 MCF/D. 7/97 PC cum: 1232 MMCF.

Pipeline: WFS

Mangum SRC # 1

Section 29 I, T-29 -N R-11 -W
San Juan, New Mexico

Fulcher Kutz Pictured Cliffs Field Wellbore Schematic



Murphy C # 1
Pertinent Data Sheet

API #: 300450924000

Location: 990' FNL & 990' FEL, Unit A, Section 27, T30N, R11W, San Juan County, New Mexico

Latitude: 36° - 47.27'

Longitude: 107° - 58.33'

Field: Aztec PC

Elevation: 5912' GL
5922' KB

TD: 2365'

PBTD: 2365'

DP #: 49126A

Lease: NM 729-300 (Fed)

GWI: 100 %

NRI: 85 %

Prop#: 0-125965-01

Spud Date: 3/21/55

Compl Date: 4/3/55

Initial Potential: 4206 Mcfd

Original SIP: 653 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
13 3/4	9 5/8	36 J-55	93	100	circ to surf
8 3/4	5 1/2	15.5 J-55	2,323	150	1350' (TS)
4 3/4	openhole		2,323 -2,365		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1 1/4"	2.33 J-55	2,330'	72	

Formation Tops:

Ojo Alamo: 911'
Kirtland Shale: 1,101'
Fruitland: 1,972'
Pictured Cliffs: 2,319'

Logging Record:

Original Stimulation: SOF w/ 12,700 gal oil and 17,500# sd

Workover History: 7/95: MIRU. TOOH w/ 1 inch tbg. TIH w/ 1 1/4 tbg. Return to production

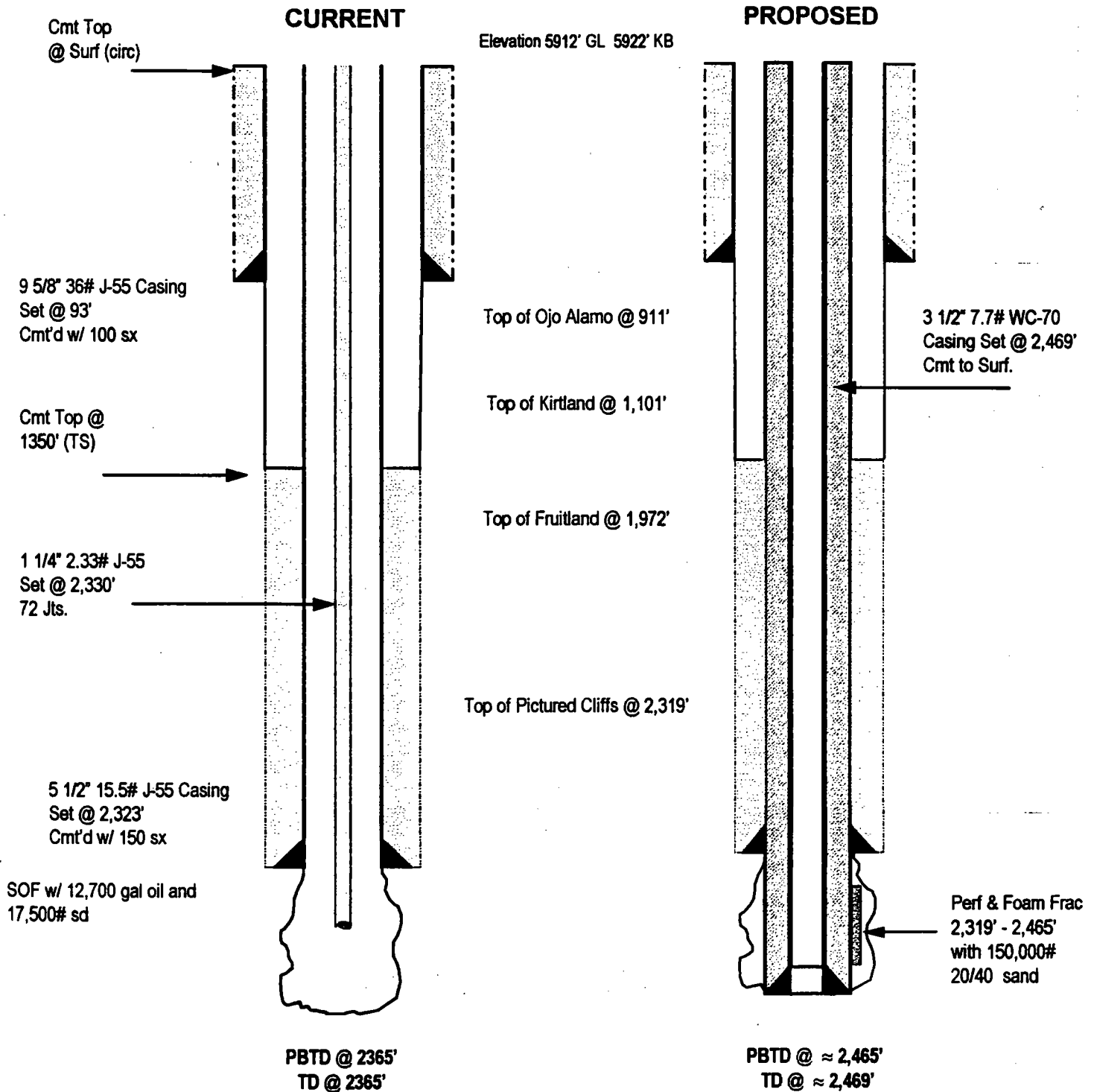
Production History: 7/97 PC capacity: 25 MCF/D. 7/97 PC cum: 937 MMCF.

Pipeline: EPNG

Murphy C # 1

Section 27 A, T-30 -N R-11 -W
San Juan, New Mexico

Aztec Pictured Cliffs Field Wellbore Schematic



Nye SRC # 4
Pertinent Data Sheet

API #: 300456021100

Location: 1650 ' FSL & 1650 ' FEL, Unit J, Section 13, T30N, R11W, San Juan County, New Mexico

Latitude: 36 ° - 48.54 '

Longitude: 107 ° - 56.34 '

Field: Aztec PC

Elevation: 6093 ' GL
6106 ' KB

TD: 2675 '

PBTD: 2675 '

DP #: 53580

Spud Date: 5/11/53

Compl Date: 5/25/53

Lease: 020238T (Fed)

GWl: 25 %

Initial Potential: 1930 Mcfd

NRI: 20.75 %

Original SIP: 685 psi

Prop#: 0-020238

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	32 H-40	119	75	circ to surf
7 7/8	5 1/2	15.5 J-55	2,573	100	1984' @ 75% eff.
4 3/4	openhole		2,573 -2,675		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1 1/4"	2.33 J-55	2,608'	83	Notched collar on btm, SN 1 jt off btm

Formation Tops:

Ojo Alamo: 1,154 '
Kirtland Shale: 1,304 '
Fruitland: 2,364 '
Pictured Cliffs: 2,572 '

Logging Record:

Original Stimulation: SOH w/ 124 qts SNG

Workover History: 10/95: MIRU. Pull 1 inch tbg, CO to TD. TIH with 1 1/4 tbg. Return to production

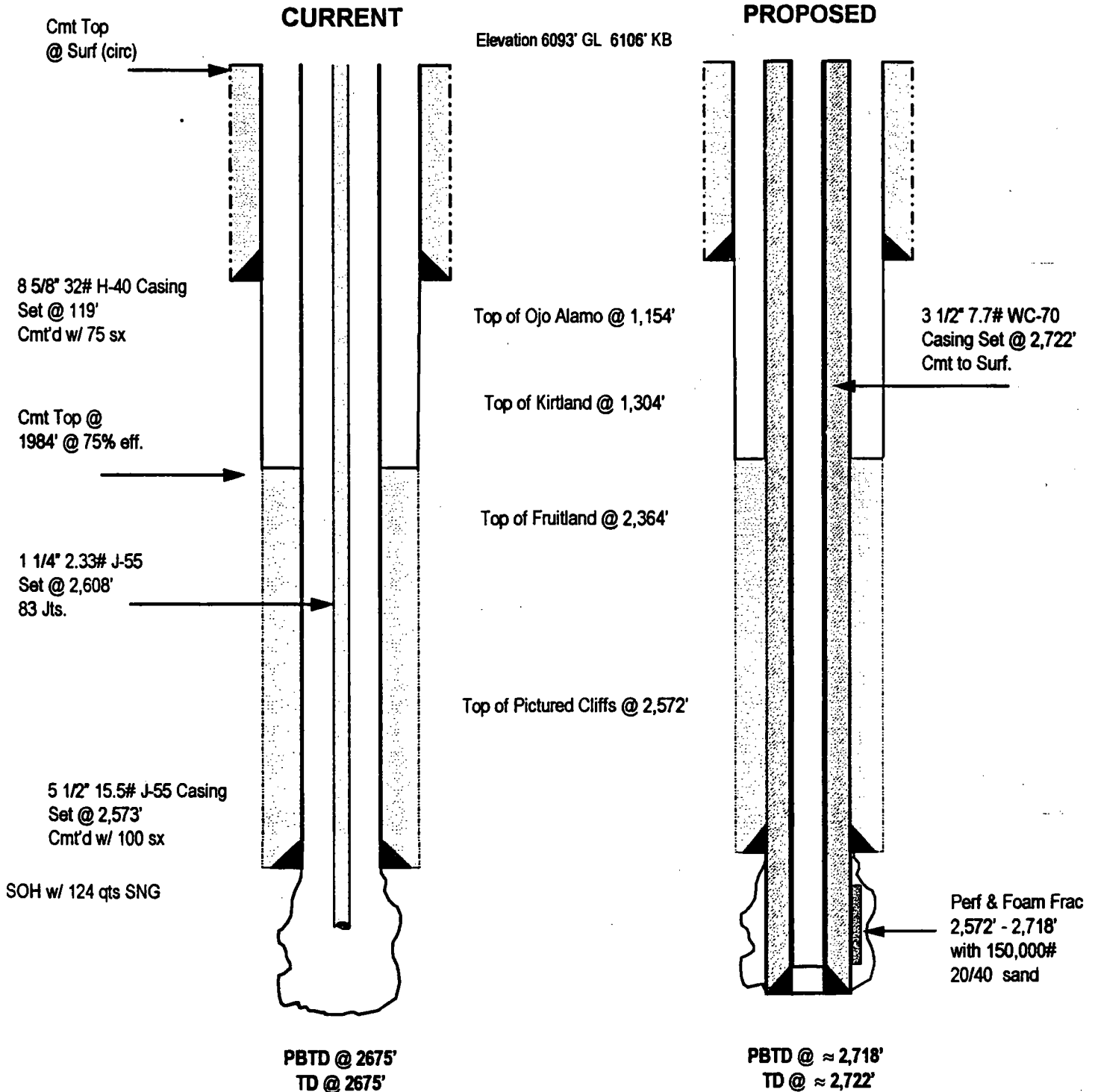
Production History: 7/97 PC capacity: 13 MCF/D. 7/97 PC cum: 1051 MMCF.

Pipeline: EPNG

Nye SRC # 4

Section 13 J, T-30 -N R-11 -W
San Juan, New Mexico

Aztec Pictured Cliffs Field Wellbore Schematic



Omler # 8
Pertinent Data Sheet

API #: 300450713200

Location: 1100' FSL & 1100' FWL, Unit M, Section 25, T28N, R10W, San Juan County, New Mexico

Latitude: 36° - 37.73'

Longitude: 107° - 51.11'

Field: Fulcher Kutz PC

Elevation: 5852' GL
5862' KB

TD: 1960'

PBTD: 1960'

DP #: 50899A

Lease: NM 4535-01 (Fed)

GWI: 100 %

NRI: 66.3125 %

Prop#: 0-126347-00

Spud Date: 11/2/54

Compl Date: 11/22/54

Initial Potential: 2113 Mcfd

Original SIP: 609 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	9 5/8	32.3 J-55	99	75	circ to surf
7 7/8	5 1/2	14 J-55	1,905	100	1316' @ 75% eff.
4 3/4	openhole		1,905 -1,960		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,930'	92 (est)	

Formation Tops:

Ojo Alamo: 904'
Kirtland Shale: 1,006'
Fruitland: 1,632'
Pictured Cliffs: 1,910'

Logging Record:

Original Stimulation: SOF w/ 10,500 gal oil and 12,300# sand, Natural 75 Mcfd

Workover History: None

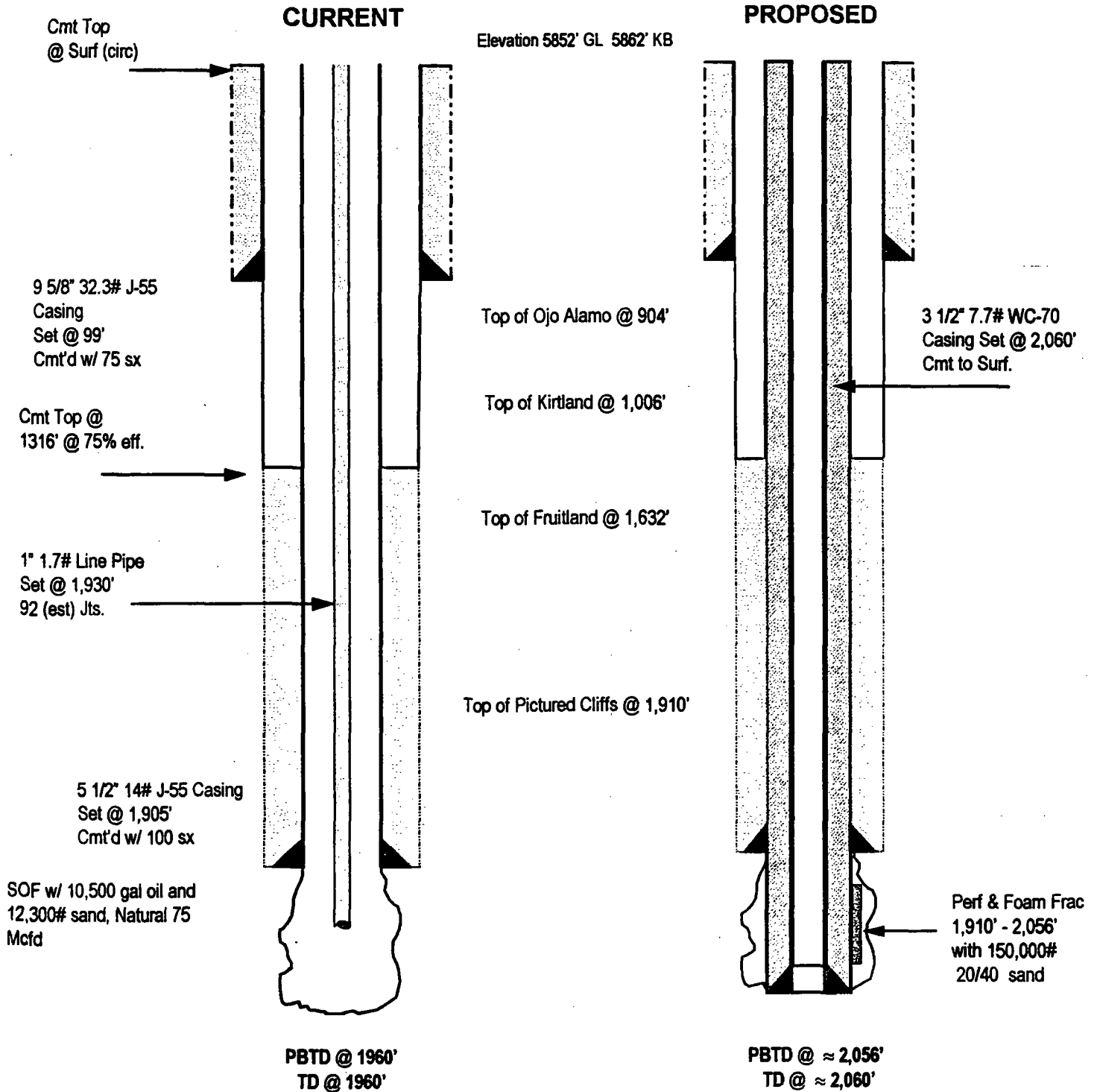
Production History: 7/97 PC capacity: 11 MCF/D. 7/97 PC cum: 987 MMCF.

Pipeline: EPNG

Omler # 8

Section 25 M, T-28 -N R-10 -W
San Juan, New Mexico

Fulcher Kutz Pictured Cliffs Field Wellbore Schematic



Schultz # 3
Pertinent Data Sheet

API #: 300450644900

Location: 990 ' FSL & 1795 ' FWL, Unit N, Section 16, T27N, R08W, San Juan County, New Mexico

Latitude: 36° - 34.16' **Longitude:** 107° - 41.35'

Field: South Blanco PC

Elevation: 6054 ' GL
6059 ' KB

TD: 2203 '

PBTD: 2203 '

DP #: 49241A

Lease: NM 494-300 (St)

GWI: 100 %

NRI: 47.5 %

Prop#: 0-126313-00

Spud Date: 4/6/55

Compl Date: 5/14/55

Initial Potential: Initial Potential = 9485 Mcfd
Orig SIP = 851 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
11	8 5/8	24 J-55	104	100	circ to surf
7 7/8	5 1/2	14 J-55	2,142	100	1553' @ 75% eff.
4 3/4	openhole		2,142 -2,203		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
2 3/8"	4.7 J-55	2,122'	68	Baker Loc-Set pkr with on/off tool set at 2018'

Formation Tops:

Ojo Alamo: 1,187 '
Kirtland Shale: 1,361 '
Fruitland: 1,919 '
Pictured Cliffs: 2,150 '

Logging Record:

Original Stimulation: SOF w/ 8,000 gal diesel and 11,300# sand

Workover History: 6/8/72: Pull tbg, Rerun 2-3/8 tbg, Land at 2122'. Pkr at 2018'

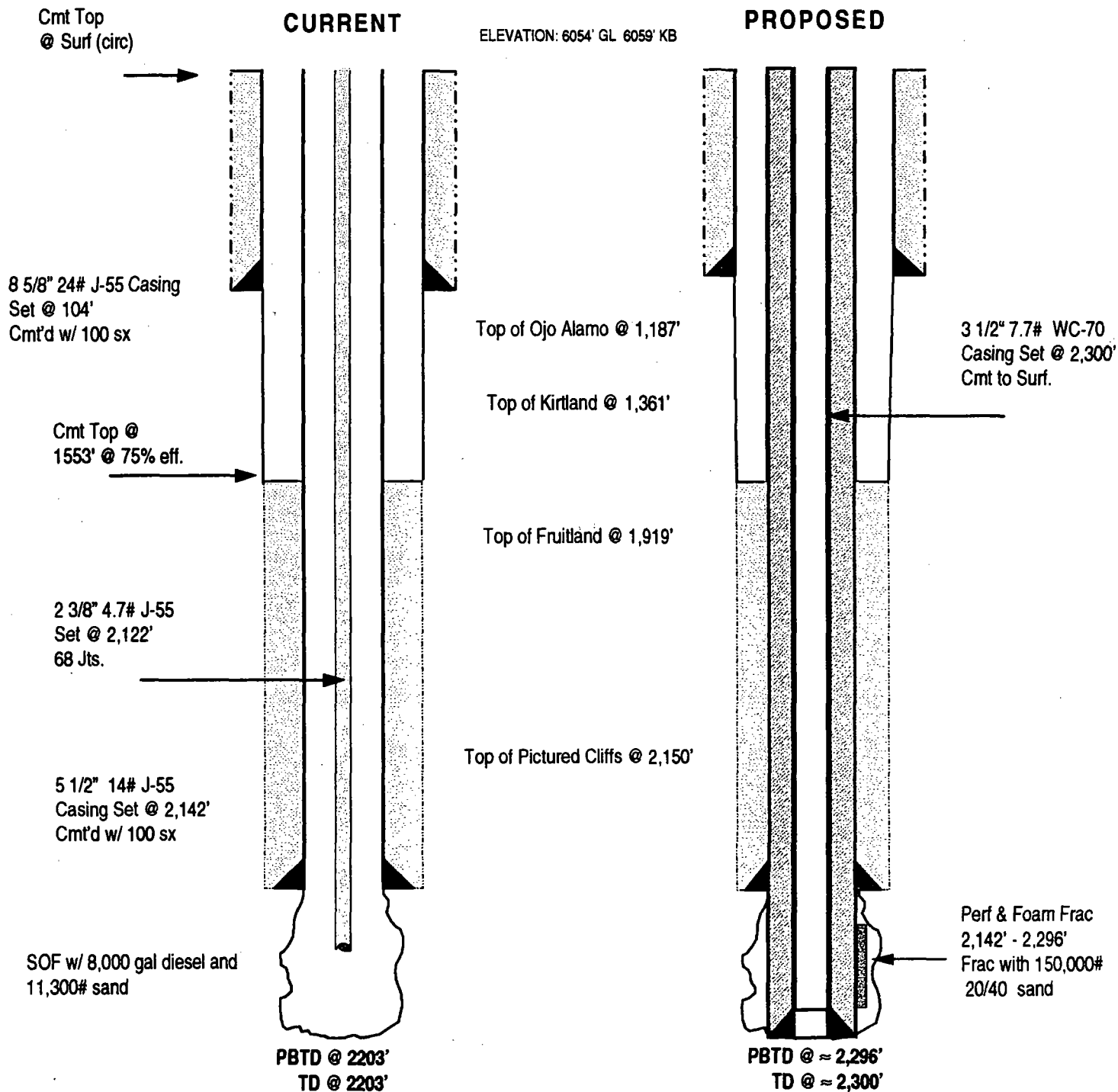
Production History: 7/97 PC capacity: 49.0 MCF/D. 7/97 PC cum: 1917.0 MMCF.

Pipeline: EPNG

Schultz # 3

Section 16 N, T-27-N R-08-W
San Juan, New Mexico

South Blanco Pictured Cliffs Wellbore Schematic



Schultz Com # 4
Pertinent Data Sheet

API #: 300450646900

Location: 1450' FSL & 1450' FEL, Unit J, Section 16, T27N, R08W, San Juan County, New Mexico

Latitude: 36° - 34.23'

Longitude: 107° - 40.96'

Field: South Blanco PC

Elevation: 5995' GL
6003' KB

TD: 2203'

PBTD: 2203'

DP #: 49377A

Lease: NM 4495-300 (St)

GWI: 100 %

NRI: 47.95 %

Prop#: 0-126313-00

Spud Date: 6/21/55

Compl Date: 7/21/55

Initial Potential: Initial Potential = 763 Mcfd
Orig SIP = 876 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
11	8 5/8	24 J-55	100	80	circ to surf
7 7/8	5 1/2	14 J-55	2,123	100	1534' @ 75% eff.
4 3/4	openhole		2,123 -2,203		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,194'	104	

Formation Tops:

Ojo Alamo: 1,198'
Kirtland Shale: 1,329'
Fruitland: 1,932'
Pictured Cliffs: 2,143'

Logging Record:

Original Stimulation: SOF w/ 7,816 gal oil and 11,000# sand

Workover History: None

Production History: 7/97 PC capacity: 0.0 MCF/D. 7/97 PC cum: 659.0 MMCF.

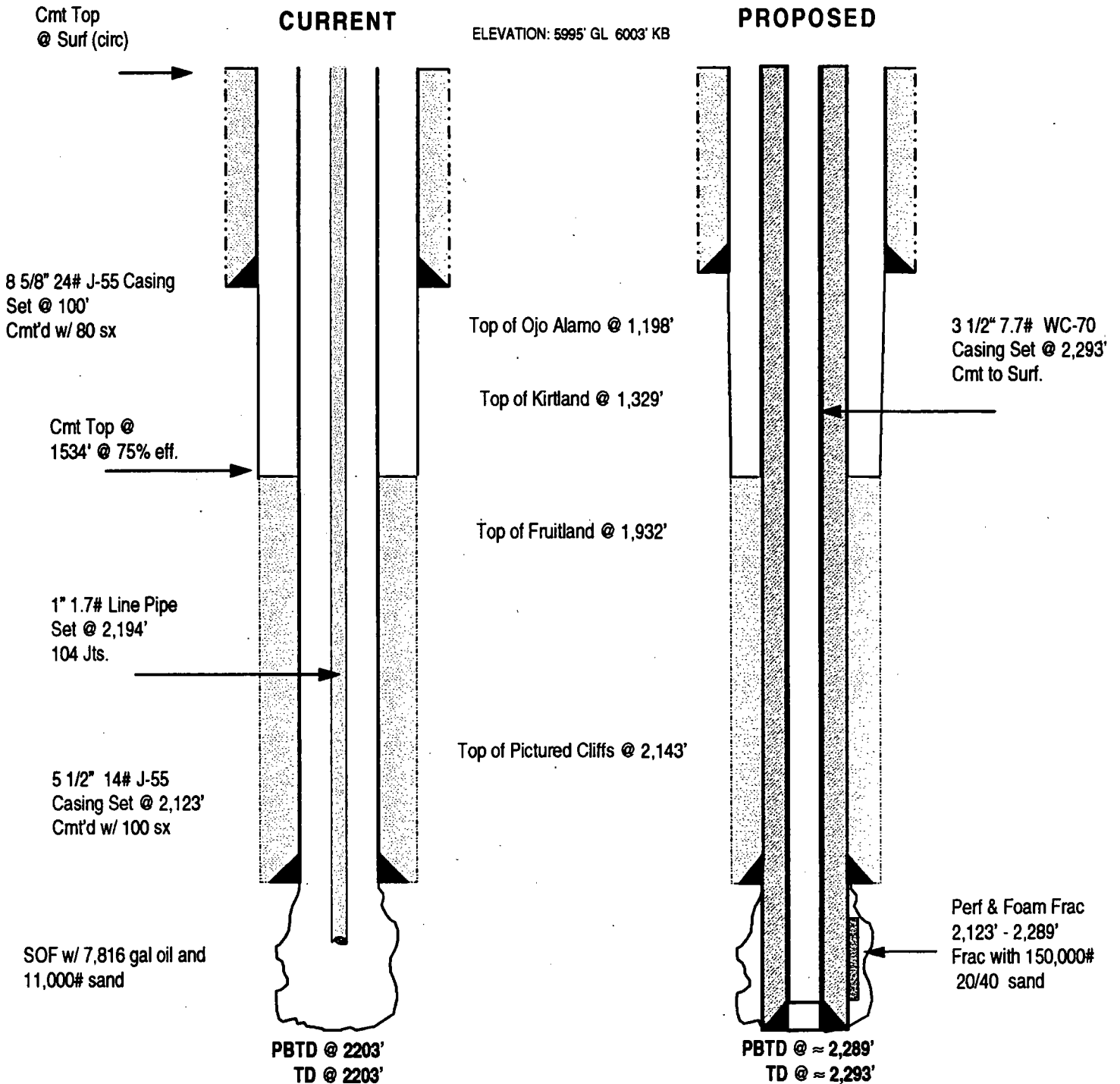
Pipeline: EPNG

Schultz Com # 4

Section 16 J, T-27-N R-08-W
San Juan, New Mexico

South Blanco Pictured Cliffs Wellbore Schematic

ELEVATION: 5995' GL 6003' KB



Sullivan A # 1
Pertinent Data Sheet

API #: 300450728000

Location: 990' FSL & 1650' FEL, Unit O, Section 23, T28N, R10W, San Juan County, New Mexico

Latitude: 36° - 38.58' **Longitude:** 107° - 51.67'

Field: Fulcher Kutz PC

Elevation: 5739' GL
5749' KB

TD: 1856'

PBTD: 1856'

DP #: 50933A

Lease: NM 4781-01 (Private)

GWl: 100 %

NRI: 75 %

Prop#: 0-126510-00

Spud Date: 2/18/55

Compl Date: 3/4/55

Initial Potential: 2148 Mcfd

Original SIP: 623 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	9 5/8	36 H-40	98	75	circ to surf
8 3/4	5 1/2	14 J-55	1,825	100	1421' @ 75% eff.
4 3/4	openhole		1,825 -1,856		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,840'	88 (est)	

Formation Tops:

Ojo Alamo: 779' All Tops are Estimated
Kirtland Shale: 900'
Fruitland: 1,554'
Pictured Cliffs: 1,822'

Logging Record:

Original Stimulation: SOF w/ 8,000 gal oil and 8,000# sand

Workover History: None

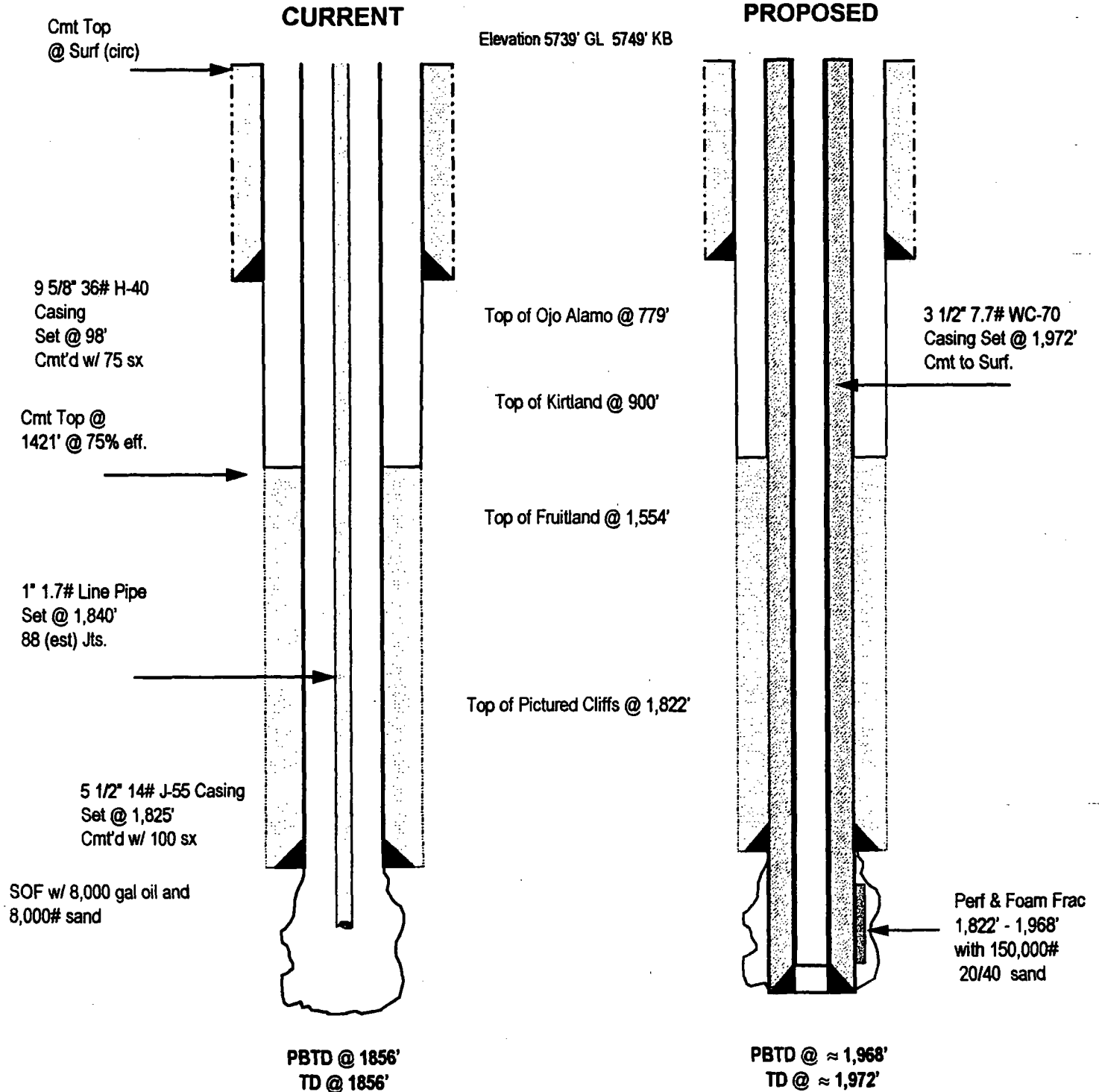
Production History: 7/97 PC capacity: 34 MCF/D. 7/97 PC cum: 711 MMCF.

Pipeline: EPNG

Sullivan A # 1

Section 23 O, T-28 -N R-10 -W
San Juan, New Mexico

Fulcher Kutz Pictured Cliffs Field Wellbore Schematic



Sutton # 1
Pertinent Data Sheet

API #: 300450955800

Location: 1090 ' FNL & 990 ' FWL, Unit D, Section 18, T30N, R11W, San Juan County, New Mexico

Latitude: 36 ° - 48.99 '

Longitude: 108 ° - 2.23 '

Field: Aztec PC

Elevation: 5583 ' GL
5593 ' KB

TD: 1987 '

PBTD: 1987 '

DP #: 11463A

Lease: NM 7056 (Private)

GWl: 57.500001 %

NRI: 47.29242 %

Prop#: 0-710918-00

Spud Date: 8/6/54

Compl Date: 8/26/54

Initial Potential: 1325 Mcfd

Original SIP: 650 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
13 3/4	10 3/4	32.75 H-40	76	50	circ to surf
8 3/4	7	20 J-55	1,925	180	704' @ 75% eff.
6 1/8	openhole		1,925 -1,987		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,979 '	94 (est)	

Formation Tops:

Ojo Alamo: 465 '
Kirtland Shale: 545 '
Fruitland: 1,730 '
Pictured Cliffs: 1,925 '

Logging Record:

Original Stimulation: SOH w/ 160 qts SNG

Workover History: None

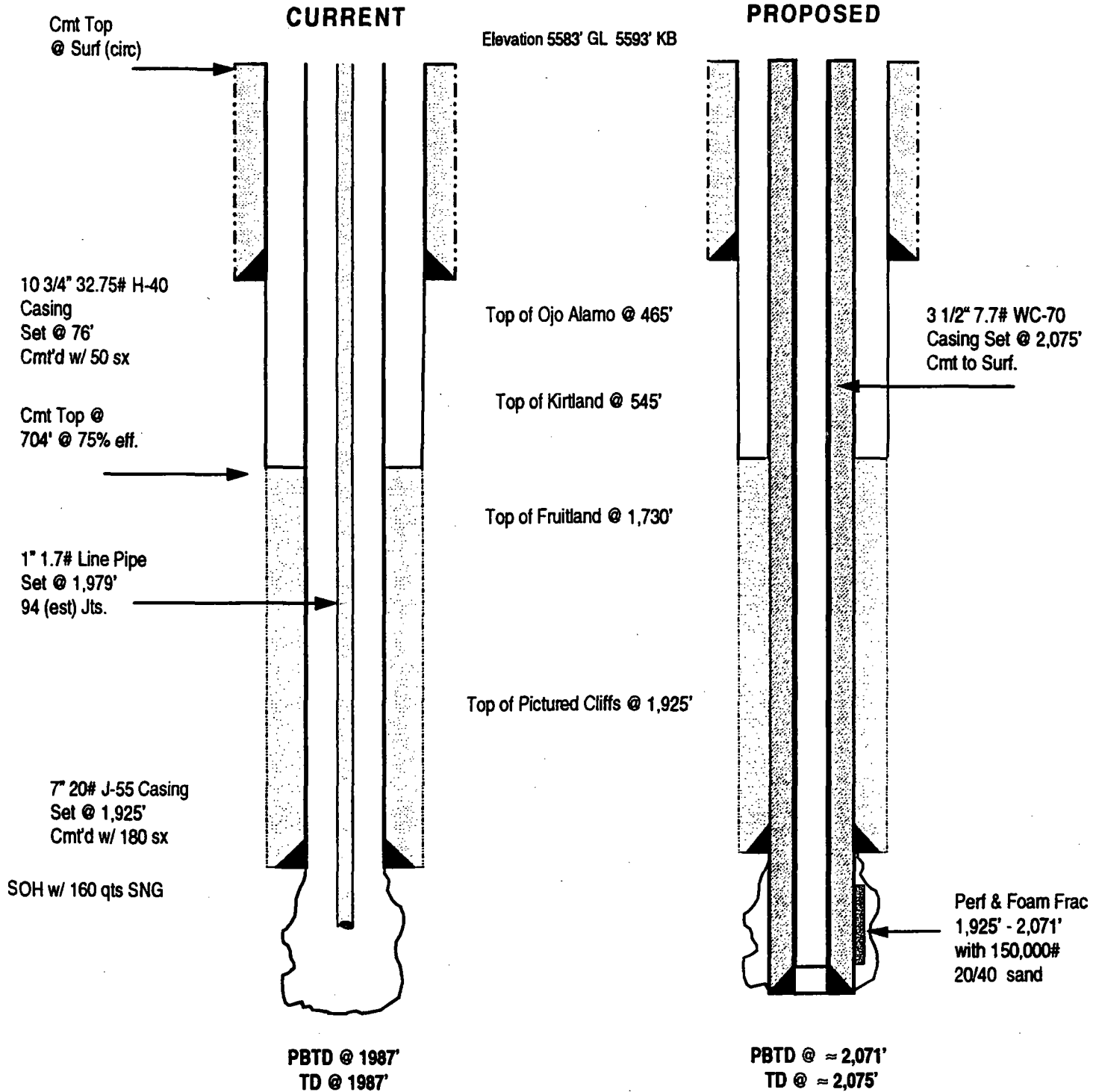
Production History: 7/97 PC capacity: 0 MCF/D. 7/97 PC cum: 597 MMCF.

Pipeline: EPNG

Sutton #1

Section 18 D, T-30 -N R-11 -W
San Juan, New Mexico

Aztec Pictured Cliffs Field Wellbore Schematic



Turner Hughes # 5
Pertinent Data Sheet

API #: 300451328400

Location: 1650 ' FNL & 990 ' FWL, Unit E, Section 3, T27N, R09W, San Juan County, New Mexico

Latitude: 36° - 36.38'

Longitude: 107° - 46.69'

Field: South Blanco PC

Elevation: 6853 ' GL
6863 ' KB

TD: 3007'

PBTD: 3007'

DP #: 49474A

Lease: NM 4512-980 (Fed)

GWI: 100 %

NRI: 75 %

Prop#: 0-126330-04

Spud Date: 11/13/55

Compl Date: 3/24/56

Initial Potential: Initial Potential = 3390 Mcfd
Orig SIP = 720 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
13 3/4	9 5/8	32 J-55	89	70	circ to surf
7 7/8	5 1/2	14 J-55	2,934	100	2345' @ 75% eff.
4 3/4	openhole		2,934 -3,007		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,994'	120	

Formation Tops:

Ojo Alamo: 2,000 '
Kirtland Shale: 2,152 '
Fruitland: 2,665 '
Pictured Cliffs: 2,932 '

Logging Record:

Original Stimulation: SOF w/ 17,000 gal oil and 30,000# sand

Workover History: None

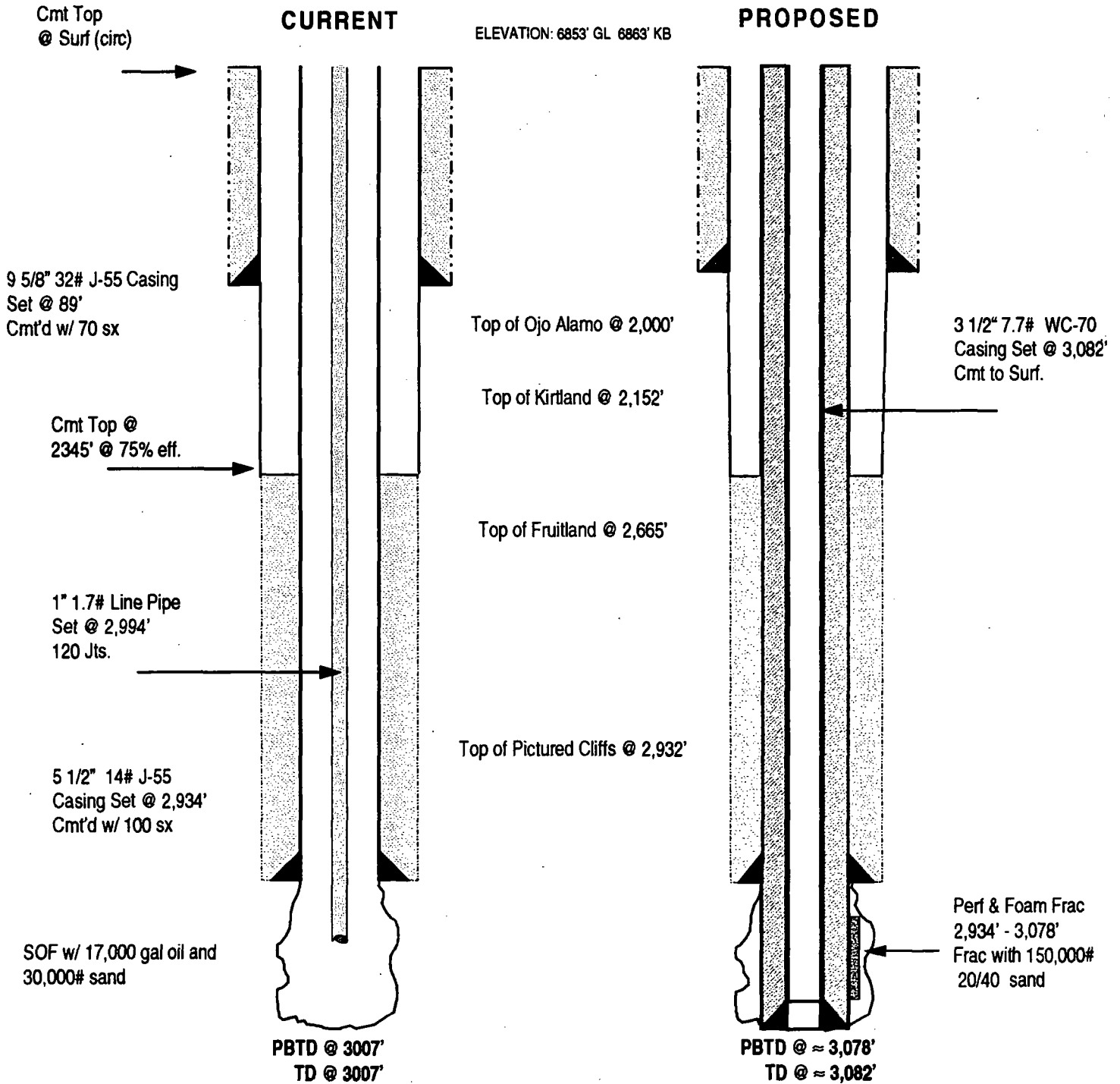
Production History: 7/97 PC capacity: 7.0 MCF/D. 7/97 PC cum: 654.0 MMCF.

Pipeline: EPNG

Turner Hughes # 5

Section 3 E, T-27-N R-09-W
San Juan, New Mexico

South Blanco Pictured Cliffs Wellbore Schematic



White Kutz # 1
Pertinent Data Sheet

API #: 300450734600

Location: 1600' FNL & 1090' FWL, Unit E, Section 22, T28N, R10W, San Juan County, New Mexico

Latitude: 36° - 39.03' **Longitude:** 107° - 53.26'

Field: Fulcher Kutz PC

Elevation: 6033' GL
6043' KB

TD: 2140'

PBTD: 2140'

DP #: 51011A

Lease: NM 237-300 (Fed)

GWI: 100 %

NRI: 70.375 %

Prop#: 0-720107-00

Spud Date: 6/20/55

Compl Date: 7/24/55

Initial Potential: 861 Mcfd

Original SIP: 402 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
13 3/4	9 5/8	32 H-40 ?	100	100	circ to surf
7 7/8	5 1/2	14 J-55	2,103	100	1514' @ 75% eff.
4 3/4	openhole		2,103 -2,140		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,110'	100 (est)	

Formation Tops:

Ojo Alamo: 1,044' All Tops are Estimated
Kirtland Shale: 1,170'
Fruitland: 1,921'
Pictured Cliffs: 2,111'

Logging Record:

Original Stimulation: SOF w/ 7,000 gal oil and 12,000# sand

Workover History: None

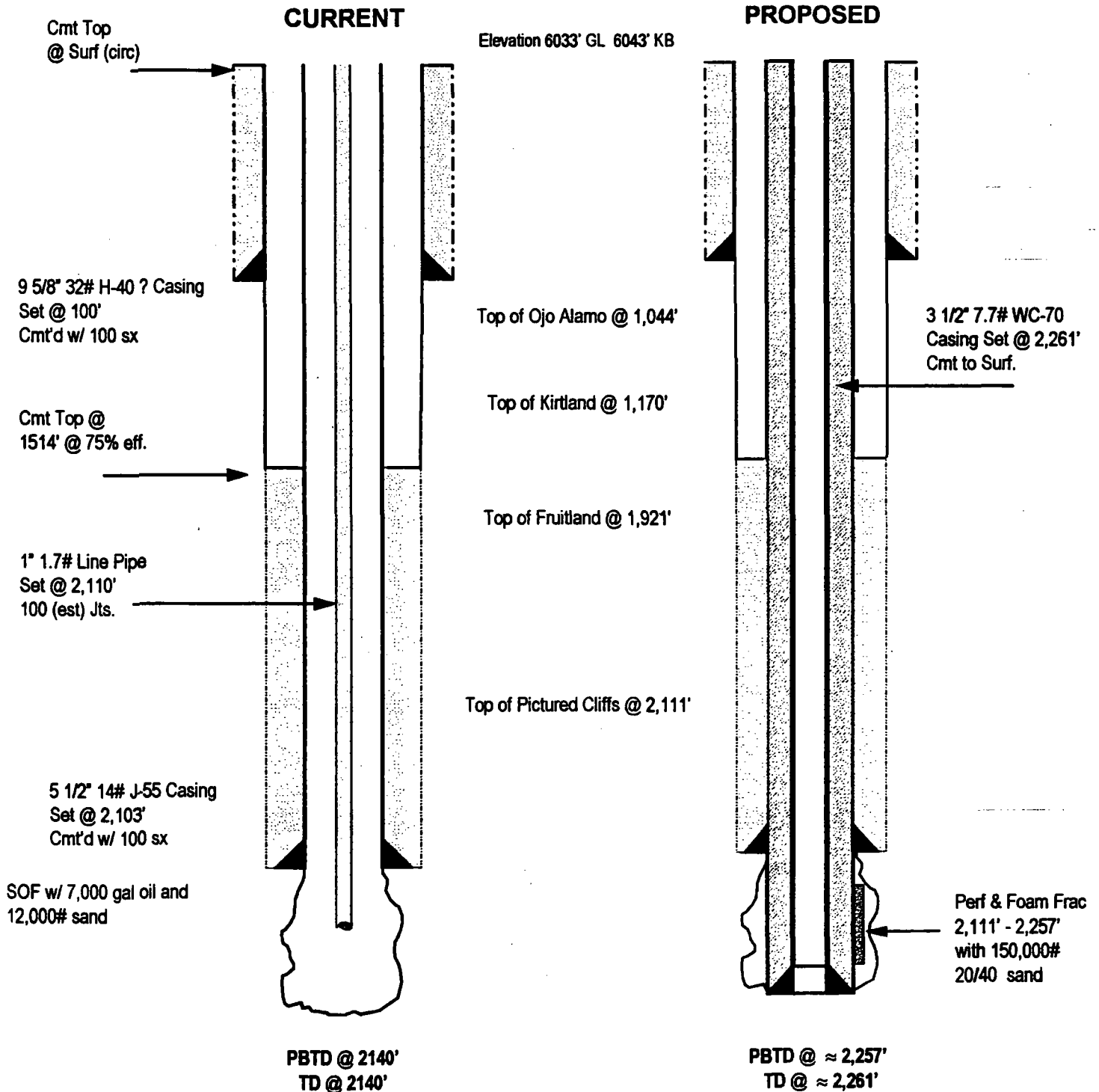
Production History: 7/97 PC capacity: 36 MCF/D. 7/97 PC cum: 864 MMCF.

Pipeline: EPNG

White Kutz # 1

Section 22 E, T-28 -N R-10 -W
San Juan, New Mexico

Fulcher Kutz Pictured Cliffs Field Wellbore Schematic



Zachry # 4
Pertinent Data Sheet

API #: 300451336200

Location: 990 ' FSL & 890 ' FEL, Unit P, Section 34, T29N, R10W, San Juan County, New Mexico

Latitude: 36 ° - 40.68 '

Longitude: 107 ° - 51.97 '

Field: Aztec PC

Elevation: 5580 ' GL
5590 ' KB

TD: 1885 '
PBTD: 1885 '
DP #: 32187A
Lease: NM 9388 (Fed)
GWl: 100 %
NRI: 82 %
Prop#: 0-712128-00

Spud Date: 4/5/55

Compl Date: 4/13/55

Initial Potential: 3383 Mcfd

Original SIP: 663 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
13 3/4	9 5/8	36 H-40	94	100	circ to surf
8 3/4	5 1/2	15.5 J-55	1,806	350	473' @ 75% eff.
4 3/4	openhole		1,806 -1,885		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,830'	87	

Formation Tops:

Ojo Alamo: 721 '
Kirtland Shale: 833 '
Fruitland: 1,602 '
Pictured Cliffs: 1,812 '

Logging Record:

Original Stimulation: SOF w/ 12,600 gal oil and 16,000# sand

Workover History: None

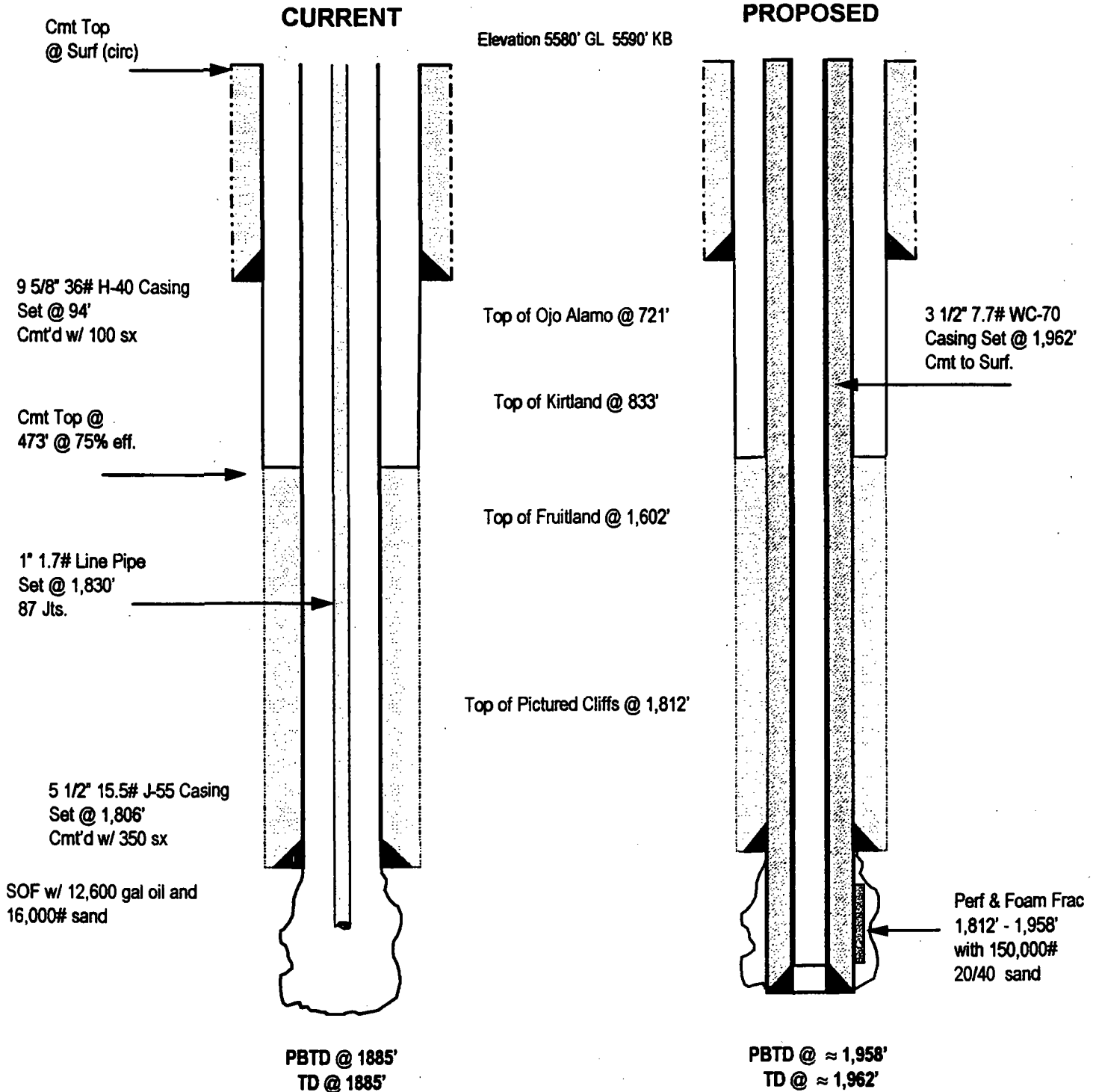
Production History: 7/97 PC capacity: 69 MCF/D. 7/97 PC cum: 1223 MMCF.

Pipeline: BROG

Zachry # 4

Section 34 P, T-29 -N R-10 -W
San Juan, New Mexico

Aztec Pictured Cliffs Field Wellbore Schematic



Zachry # 6
Pertinent Data Sheet

API #: 300450758400

Location: 1125' FNL & 1190' FEL, Unit P, Section 10, T28N, R10W, San Juan County, New Mexico

Latitude: 36° - 40.33' **Longitude:** 107° - 52.65'

Field: Aztec PC

Elevation: 5729' GL
5739' KB

TD: 2000'

PBTD: 2000'

DP #: 32107A

Lease: NM 9388 (Fed)

GWl: 100 %

NRI: 82 %

Prop#: 0-712097-00

Spud Date: 6/1/55

Compl Date: 6/21/55

Initial Potential: 3319 Mcfd

Original SIP: 595 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
13 3/4	9 5/8	36 H-40	157	125	circ to surf
8 3/4	5 1/2	15.5 J-55	1,935	150	1329' @ 75% eff.
4 3/4	openhole		1,935 -2,000		

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,946'	93	

Formation Tops:

Ojo Alamo: 859' All Tops are Estimated
Kirtland Shale: 969'
Fruitland: 1,677'
Pictured Cliffs: 1,928'

Logging Record:

Original Stimulation: SOF w/ 12,600 gal oil and 16,000# sand

Workover History: None

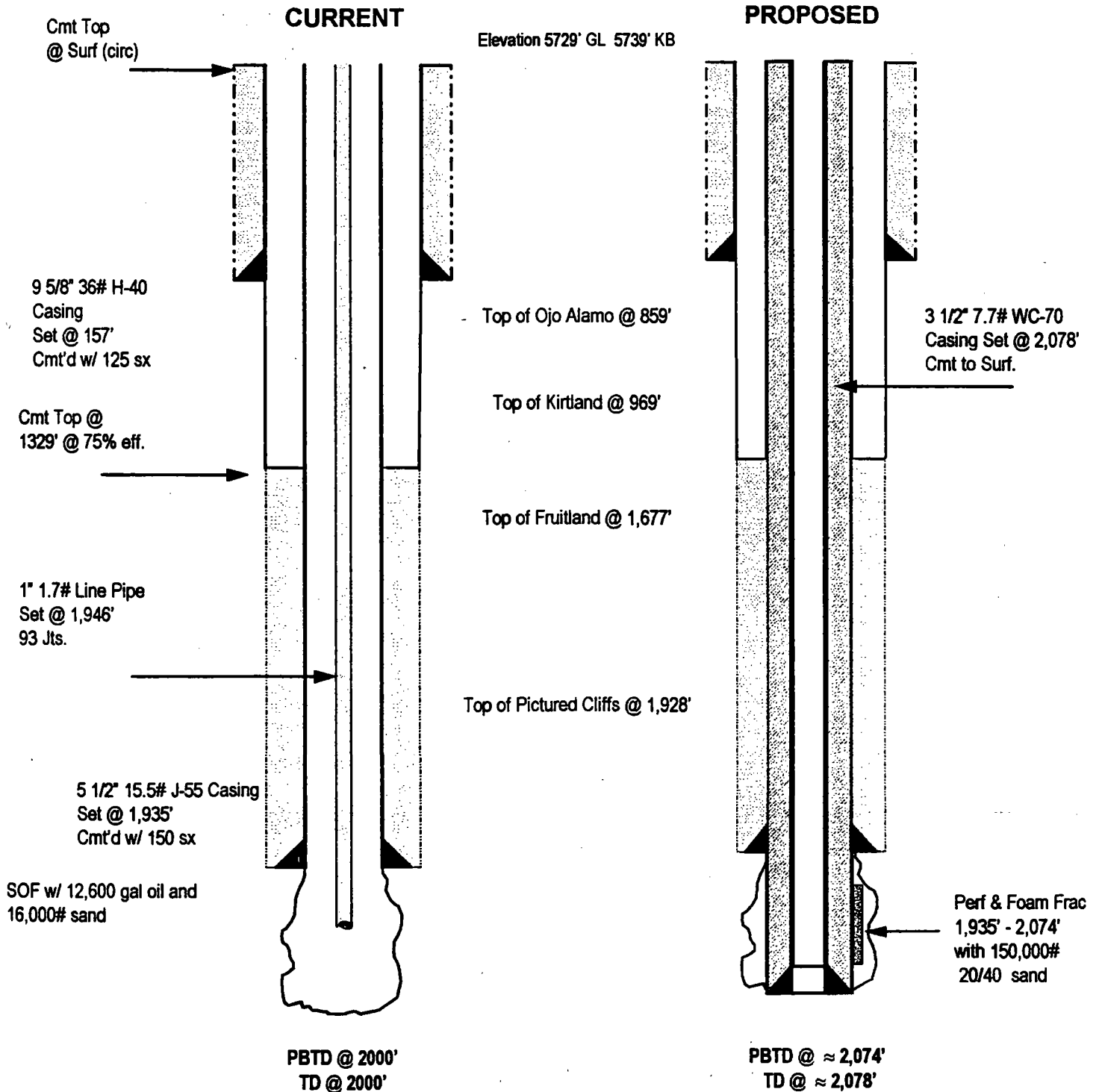
Production History: 7/97 PC capacity: 44 MCF/D. 7/97 PC cum: 1088 MMCF.

Pipeline: BROG

Zachry # 6

Section 10 P, T-28 -N R-10 -W
San Juan, New Mexico

Aztec Pictured Cliffs Field Wellbore Schematic



Dallabetta # 1
Pertinent Data Sheet

API #: 300450793700

Location: 330 ' FSL & 1650 ' FWL, Unit N, Section 20, T29N, R11W, San Juan County, New Mexico

Latitude: 36° - 42.29'

Longitude: 108° - 1.06'

Field: Fulcher Kutz PC

Elevation: 5409' GL
5419' KB

TD: 1641'

PBTD: 1640'

DP #: 11535

Lease: SRC 0023002 (Private)

GWI: 25 %

NRI: 21.875 %

Prop#: 23002

Spud Date: 11/3/46

Compl Date: 12/1/46

Initial Potential: 1265 Mcfd

Original SIP: 503 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement Top</u>
17 1/2	15 1/2	? ?	42	10	circ to surf
7 7/8	5 1/2	14 J-55	1,534	25	1387' @ 75% eff.
4 3/4	3 1/2	7.7 J-55	1,640	150	594' @ 75% eff.

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,500'	71 (est)	

Formation Tops:

Ojo Alamo: 202' All Tops are Estimated
Kirtland Shale: 324'
Fruitland: 1,383'
Pictured Cliffs: 1,511'

Logging Record:

Original Stimulation: Original: Natural, Restim: Perf'd 1514-74' w/ 2 SPF, SWF w/ 16,296 gal wtr, 10,000# 20/40, and 8,000# 10/20 sd

Workover History: 7/27/64: 3-1/2 Restim (see above Stimulation)

Production History: 7/97 PC capacity: 0 MCF/D. 7/97 PC cum: 1326 MMCF.

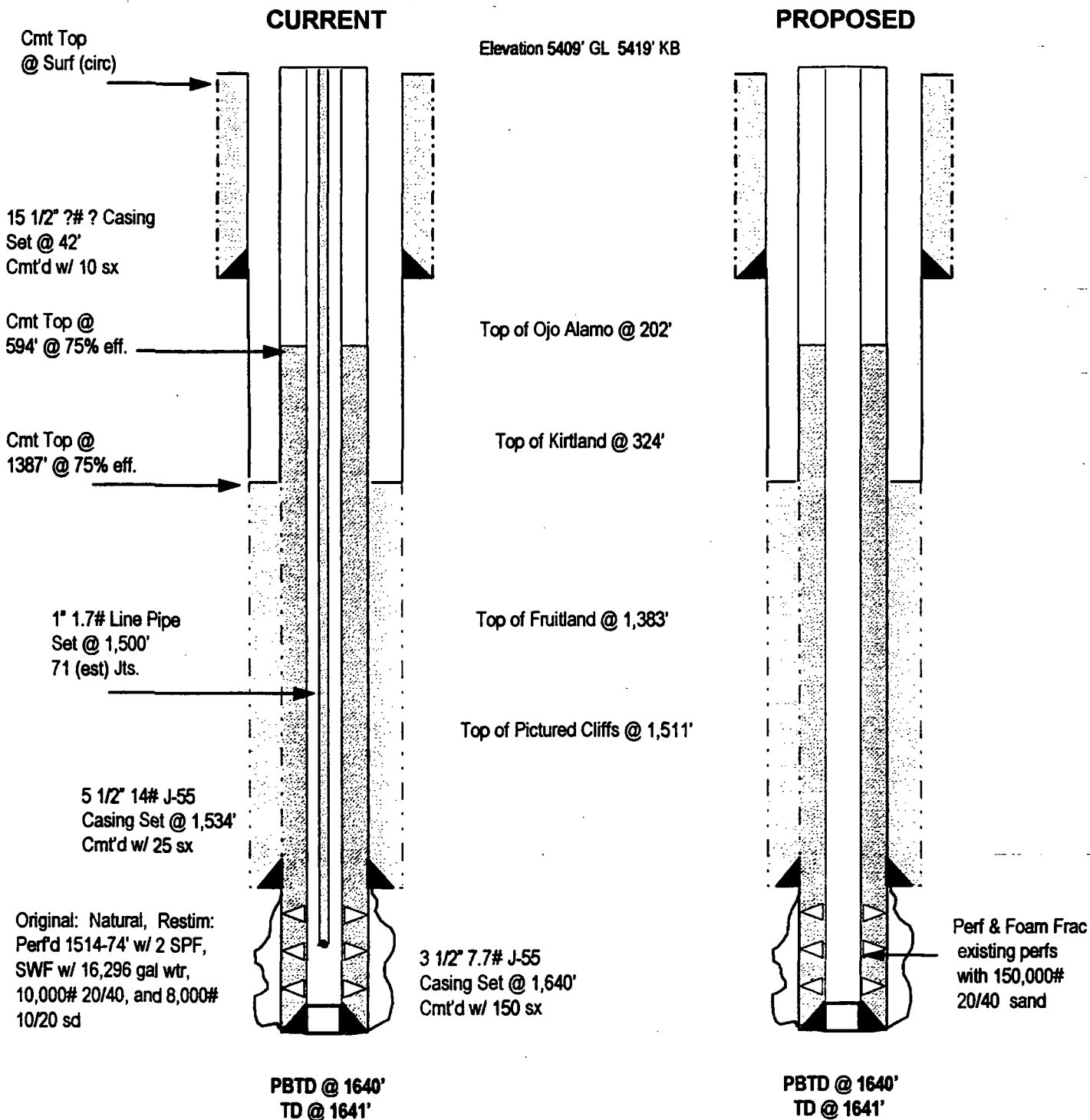
Pipeline: WFS

File: Q:\area\pcteam\1998\welldata\restim\RSTMPERT.DOC

Dallabetta # 1

Section 20 N, T-29 -N R-11 -W
San Juan, New Mexico

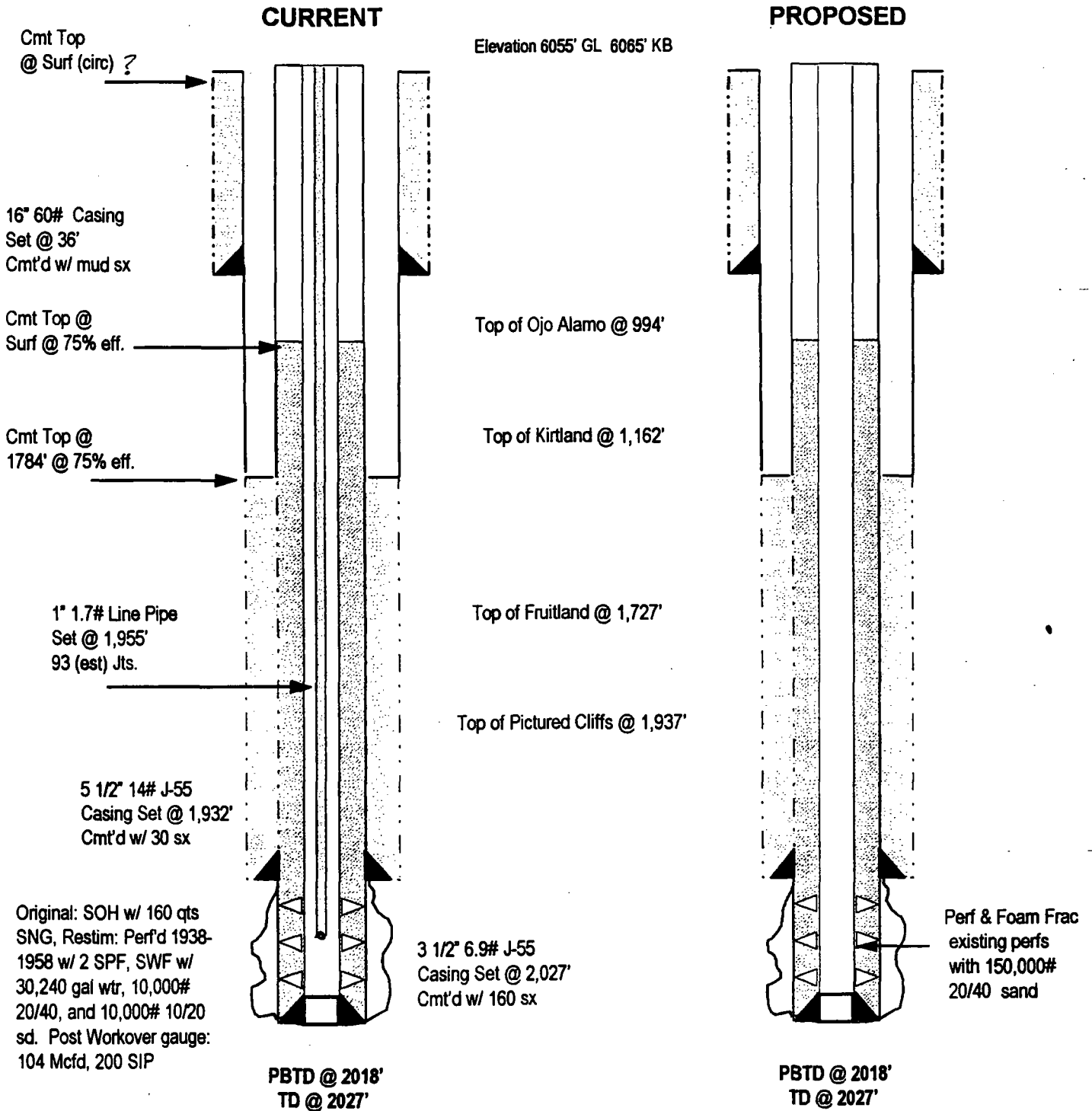
Fulcher Kutz Pictured Cliffs Field Wellbore Schematic



Hanks # 3

Section 12 M, T-27 -N R-10 -W
San Juan, New Mexico

Fulcher Kutz Pictured Cliffs Field Wellbore Schematic



Hanks #3
Pertinent Data Sheet

API #: 300450662800

Location: 990' FSL & 990' FWL, Unit M, Section 12, T27N, R10W, San Juan County, New Mexico

Latitude: 36° - 35.09'

Longitude: 107° - 51.12'

Field: Fulcher Kutz PC

Elevation: 6055' GL
6065' KB

TD: 2027'

PBTD: 2018'

DP #: 27177

Lease: SRC 0020279 (Federal)

GWI: 25 %

NRI: 21.125 %

Prop#: 20279

Spud Date: 8/13/49

Compl Date: 9/19/49

Initial Potential: 827 Mcfd

Original SIP: 589 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
17 1/2	16	60	36	mud	?
8 1/4	5 1/2	14 J-55	1,932	30	1784' @ 75% eff.
4 3/4	3 1/2	6.9 J-55	2,027	160	Surf @ 75% eff.

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,955'	93 (est)	

Formation Tops:

Ojo Alamo: 994' All Tops are Estimated
Kirtland Shale: 1,162'
Fruitland: 1,727'
Pictured Cliffs: 1,937'

Logging Record:

Original Stimulation: Original: SOH w/ 160 qts SNG, Restim: Perf'd 1938-1958 w/ 2 SPF, SWF w/ 30,240 gal wtr, 10,000# 20/40, and 10,000# 10/20 sd. Post Workover gauge: 104 Mcfd, 200 SIP

Workover History: 4/15/67: 3 1/2 Restim (See above stimulation)

Production History: 7/97 PC capacity: 0 MCF/D. 7/97 PC cum: 759 MMCF.

Pipeline: WFS

Hanks # 4
Pertinent Data Sheet

API #: 300450661700

Location: 990' FSL & 990' FEL, Unit P, Section 7, T27N, R09W, San Juan County, New Mexico

Latitude: 36° - 35.08' **Longitude:** 107° - 49.39'

Field: Fulcher Kutz PC

Elevation: 6498' GL
6508' KB

TD: 2528'

PBTD: 2490'

DP #: 27178

Spud Date: 5/16/50

Compl Date: 6/23/50

Lease: SRC 0020279 (Federal)

GWI: 25 %

Initial Potential: 240 Mcfd

NRI: 21.125 %

Original SIP: 588 psi

Prop#: 20279

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
12 1/4	8 5/8	24 J-55	91	35	circ to surf
7 7/8	5 1/2	14 J-55	2,422	115	1745' @ 75% eff.
4 3/4	3 1/2	6.9 J-55	2,501	225	Surf @ 75% eff.

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	2,471'	114	

Formation Tops:

Ojo Alamo: 1,518' All Tops are Estimated
Kirtland Shale: 1,649'
Fruitland: 2,188'
Pictured Cliffs: 2,444'

Logging Record:

Original Stimulation: Original: SOH w/ 230 qts SNG, Restim: Perf'd 2424-2437, 2442-2448 w/ 2 SPF, SWF w/ 15,760 gal wtr, 10,000# 20/40, and 10,000# 10/20 sd, Post Workover guage: 1277 Mcfd, 424 SIP

Workover History: 4/11/66: 3 1/2 Restim (See above stimulation)

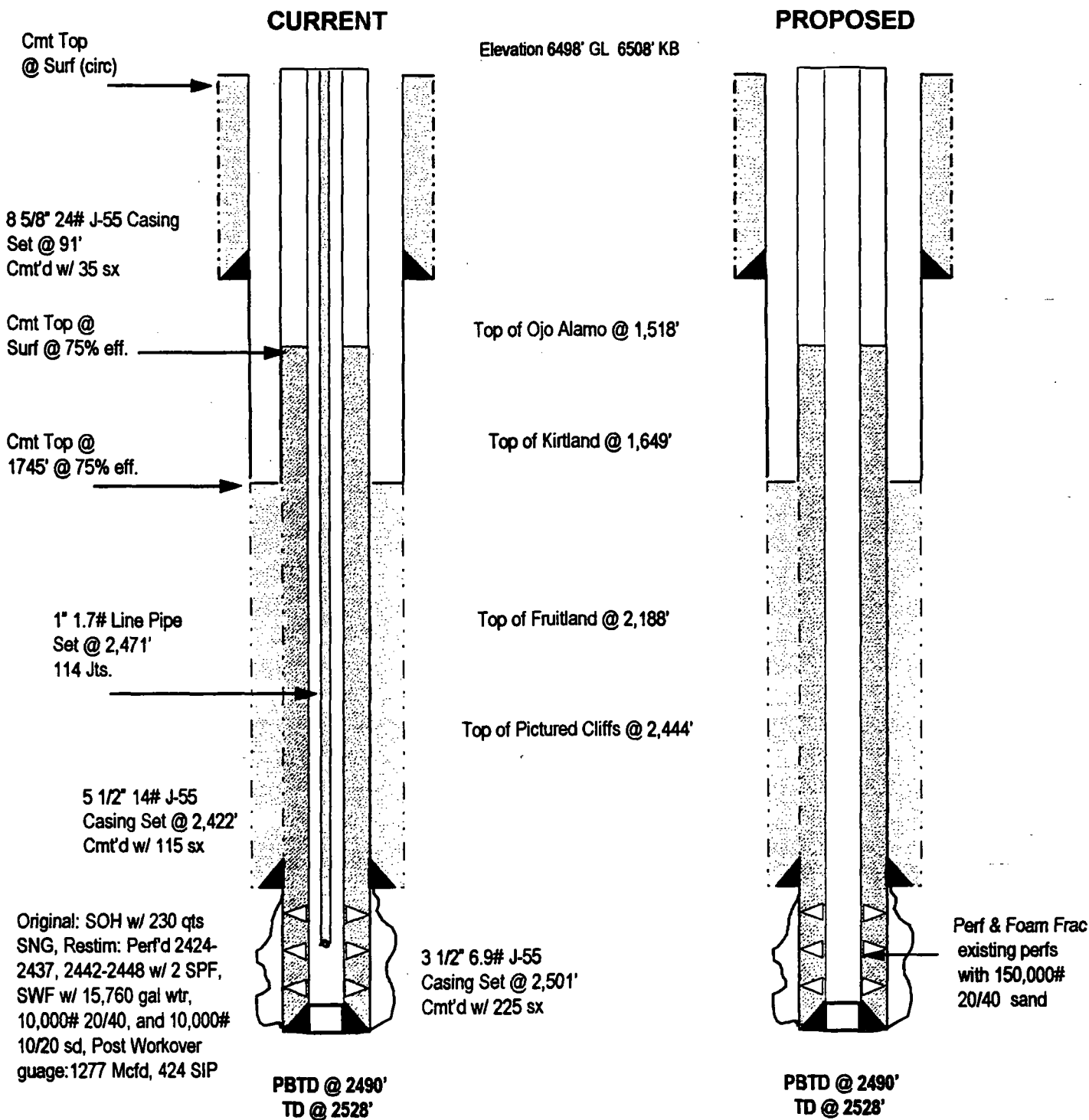
Production History: 7/97 PC capacity: 30 MCF/D. 7/97 PC cum: 680 MMCF.

Pipeline: WFS

Hanks # 4

Section 7 P, T-27 -N R-09 -W
San Juan, New Mexico

Fulcher Kutz Pictured Cliffs Field Wellbore Schematic



Kattler # 1
Pertinent Data Sheet

API #: 300450884400

Location: 990 ' FNL & 1650 ' FWL, Unit C, Section 2, T29N, R12W, San Juan County, New Mexico

Latitude: 36° - 45.54'

Longitude: 108° - 4.24'

Field: Fulcher Kutz PC

Elevation: 5855 ' GL
5865 ' KB

TD: 2060'

PBTD: 2050'

DP #: 38572

Lease: SRC 0020254 (Private)

GWl: 25 %

NRI: 21.875 %

Prop#: 20254

Spud Date: 1/26/45

Compl Date: 3/9/45

Initial Potential: 1750 Mcfd

Original SIP: 513 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
18	15 1/2	60 ?	47	?	?
8	5 1/2	14 J-55	1,960	50	1683' @ 75% eff.
4 3/4	3 1/2	7.7 J-55	2,050	205	Surf @ 75% eff.

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,974'	94	

Formation Tops:

Ojo Alamo: 595' All Tops are Estimated
Kirtland Shale: 709'
Fruitland: 1,741'
Pictured Cliffs: 1,954'

Logging Record: IES

Original Stimulation: Original: Natural gauge: 1400 Mcfd, SOH w/ 40 qts SNG, Restim: Perf'd 1961-71', 1991-95', 2002-07' w/ 2 SPF, SWF w/ 18,900 gal wtr, 10,000# 20/40, and 10,000# 10/20 sd, Post WO gauge: 356 Mcfd, SIP 214

Workover History: 5/15/67: 3-1/2 Restim (see above Stimulation)

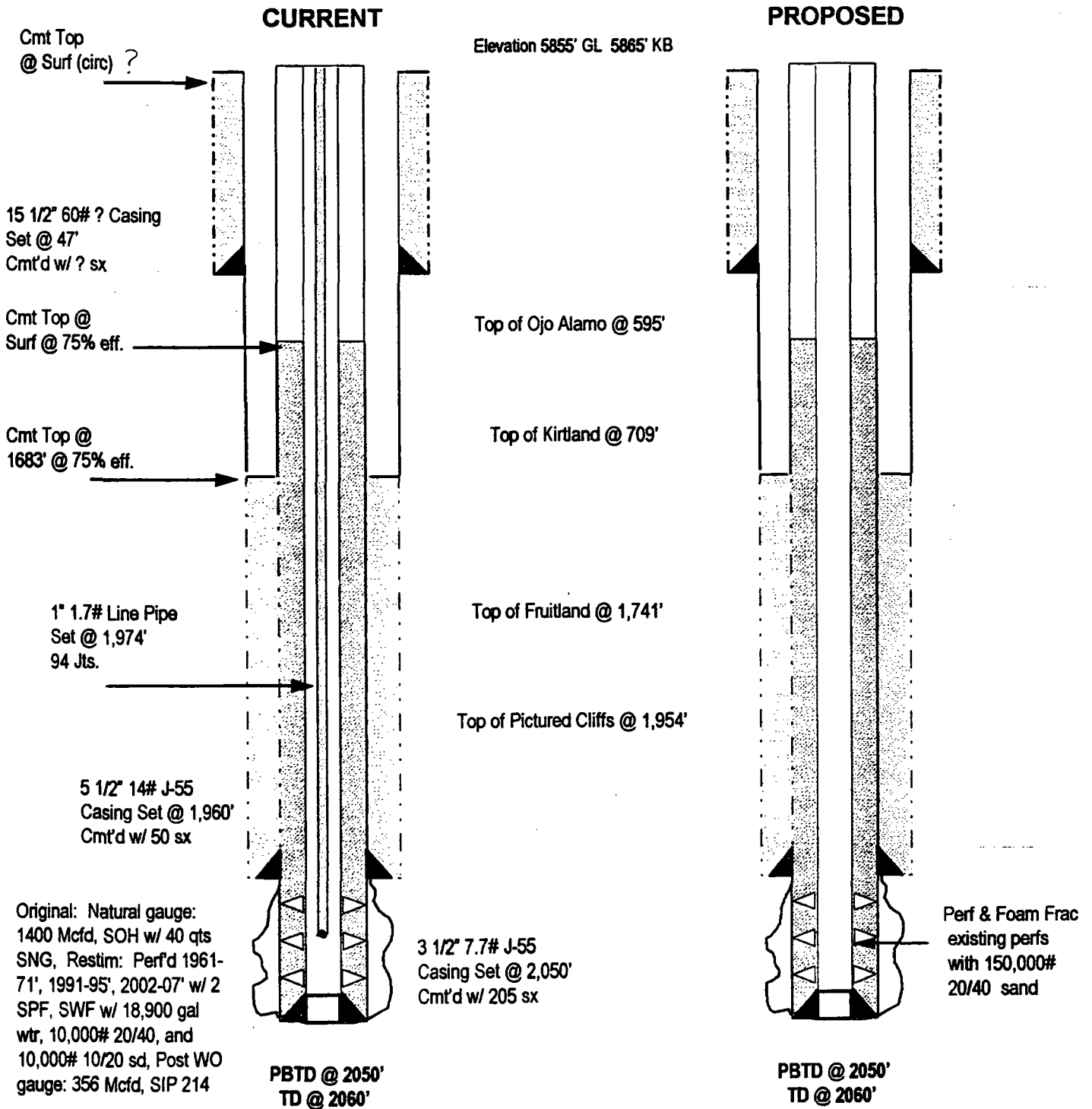
Production History: 7/97 PC capacity: 15 MCF/D. 7/97 PC cum: 879 MMCF.

Pipeline: WFS

Kattler # 1

Section 2 C, T-29 -N R-12 -W
San Juan, New Mexico

Fulcher Kutz Pictured Cliffs Field Wellbore Schematic



McGrath SRC # 1
Pertinent Data Sheet

API #: 300450871300

Location: 1808 ' FSL & 1920 ' FEL, Unit J, Section 2, T29N, R12W, San Juan County, New Mexico

Latitude: 36° - 45.15'

Longitude: 108° - 3.91'

Field: Fulcher Kutz PC

Elevation: 5887 ' GL
5897 ' KB

TD: 2137'

PBTD: 2130'

DP #: 46575

Lease: SRC 0020253 (Private)

GWl: 25 %

NRI: 21.875 %

Prop#: 20253

Spud Date: 2/11/43

Compl Date: 2/11/43

Initial Potential: 768 Mcfd

Original SIP: 554 psi

Casing Record:

<u>Hole Size (In.)</u>	<u>Csg Size (In.)</u>	<u>Wt. (#'s) & Grade</u>	<u>Depth Set (Ft.)</u>	<u>Cement (Sx.)</u>	<u>Cement (Top)</u>
17 1/2	16	60	41	mud	?
7 7/8	5 1/2	14 J-55	2,020	53	1708' @ 75% eff.
4 3/4	3 1/2	6.7 J-55	2,137	140	Surf @ 75% eff.

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u># Joints</u>	<u>Comments</u>
1"	1.7 Line Pipe	1,995'	95	

Formation Tops:

Ojo Alamo: 636' All Tops are Estimated
Kirtland Shale: 789'
Fruitland: 1,767'
Pictured Cliffs: 2,006'

Logging Record:

Original Stimulation: Original: Natural, Restim: Perf'd 2012-2078 w/ 100 SPZ, SWF w/ 17,430 gal wtr, 10,000# 20/40, and 10,000# 10/20 sd, Post Workover gauge: 1288 Mcfd, SIP 563

Workover History: 11/21/64: 3-1/2 Restim (see above Stimulation)

Production History: 7/97 PC capacity: 9 MCF/D. 7/97 PC cum: 979 MMCF.

Pipeline: WFS

McGrath SRC # 1

Section 2 J, T-29 -N R-12 -W
San Juan, New Mexico

Fulcher Kutz Pictured Cliffs Field Wellbore Schematic

