

K.B. Elev. 6972'

Location:

660' FWL, 1980' FSL
Sec. 13, T17N, R9W
McKinley County,
New Mexico

G.L. Elev. 6961'

8 5/8" Csg. @ 71'
w/ 35 Sks.

Est. Top Cement @ 1500'

2 3/8" E.U.E. Tbg.

5 1/2" Hook-Wall Packer
@ Approx. 2515'

2547-52' > Perfs.
2558-62' >

Dakota "A" Zone

PBTD 2635'

2635' Baker Md. K
Cmt. Ret.

2650-57' : Sqz'd w/ 70
Sks.

2691' - Baker Md. K Cmt.
Ret.

2724-32' > Sqz'd w/ 50 Sks.
Drl'd Out
2744-50' Reperf 2724-32';
Re-sqz'd w/ 50 Sks.

Baker Md. K Cmt. Ret.
2740'

5 1/2" Csg @ 2805'
w/ 300 Sks.

TD 2805'

TENNECO OIL COMPANY
SUNBURY OF TENNECO INC

UNDESIGNATED DAKOTA FIELD
Mc KINLEY COUNTY, NEW MEXICO

SCHEMATIC DIAGRAM OF
PROPOSED GAS INJECTION WELL
S.F.P.R.R. WELL NO. 2
SCALE - NONE

All Measurements Based On Gamma Ray Log

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

Lennco EXHIBIT NO. G

CASE NO. 4584

K.B. Elev. 7107'

2000 psi Gauge

G.L. Elev. 7096'

Location:

740' FNL, 640' FWL
Sec. 24, T17 N, R9 W
McKinley County,
New Mexico

8 5/8" Csg. @ 76'
w/ 40 Sks.

Annulus Loaded With
Packer Fluid

Est. Top Cement @ 1600'

2 3/8" E.U.E. Tbg.

5 1/2" Model "D" Packer
@ Approx. 2600'

Dakota "A" Zone

PBTD 2800' CIBP

2676'-80'
2685'-93' Perfs. - A Zone

2860'-66' Sqzd. w/ 70 Sax

2879'-82'

5 1/2" Csg. @ 2930'
w/ 300 Sks.

TD 2930'

All Measurements Based On Gamma Ray Log

TENNECO OIL COMPANY

SUBSIDIARY OF TENNECO INC.

UNDESIGNATED DAKOTA FIELD
Mc KINLEY COUNTY, NEW MEXICO

SCHEMATIC DIAGRAM OF
PROPOSED GAS INJECTION WELL
S.F.P.R.R. WELL NO. 8

W.E.B.

SCALE - NONE

10.71

CALCULATION OF CASINGHEAD GAS TO BE INJECTED
Based on July, 1971 Allowable

KDA ZONE SOUTH
HOSPAH UNDESIGNATED DAKOTA
MCKINLEY COUNTY, NEW MEXICO

<u>Company</u> <u>Lease</u>	<u>Daily</u> <u>Allowable</u>	<u>GOR*</u> <u>SCF/STB</u>	<u>Daily</u> <u>Gas, MCF</u>
Tenneco Oil Company			
Don Ne Pah #1	87	1944	169
Don Ne Pah #2	<u>100</u>	<u>550</u>	<u>55</u>
Lease Total	187	1198	224
 Kagoso #1	 100	 260	 26
Kagoso #2	<u>100</u>	<u>730</u>	<u>73</u>
Lease Total	200	495	99
 Yazzie #1	 100	 1950	 195
Yazzie #2	<u>100</u>	<u>200</u>	<u>20</u>
Lease Total	200	1075	215
 SFPRR #1	 100	 1916	 192
SFPRR #3	114	495	56
SFPRR #5	128	917	117
SFPRR #7	100	1690	169
SFPRR #9	100	6862	686
SFPRR #11	100	1691	169
SFPRR #13	100	1926	193
SFPRR #14	100	1786	179
SFPRR #15	<u>100</u>	<u>1922</u>	<u>192</u>
Lease Total	942	2073	1953
 Operator Total	 1529	 1857	 2491

CALCULATION OF CASINGHEAD GAS TO BE INJECTED
Based on July, 1971 Allowable

KDA ZONE SOUTH
HOSPAH UNDESIGNATED DAKOTA
MCKINLEY COUNTY, NEW MEXICO

<u>Company</u> <u>Lease</u>	<u>Daily</u> <u>Allowable</u>	<u>GOR*</u> <u>SCF/STB</u>	<u>Daily</u> <u>Gas, MCF</u>
Gil Oil & Gas Co.			
Bah E #1	100	1083	108
Bah E #2	<u>100</u>	<u>895</u>	<u>90</u>
Lease Total	200	990	198
	<u> </u>	<u> </u>	<u> </u>
Operator Total	200	990	198
Beard Oil Co.			
Joe Toledo #1	100	971	97
Joe Toledo #2	<u>100</u>	<u>1340</u>	<u>134</u>
Lease Total	200	1155	231
Dosh E P1 Henio #1	100	1218	122
Lease Total	100	1218	122
	<u> </u>	<u> </u>	<u> </u>
Operator Total	300	1177	353
Tesoro Petroleum Co.			
SFPRR #26	100	1815	182
SFPRR #27	<u>100 (est.)</u>	<u>1815 (est.)</u>	<u>182</u>
Lease Total	200	1815	364
	<u> </u>	<u> </u>	<u> </u>
Operator Total	200	1815	364
Field Total	<u>2229</u>	<u>1528</u>	<u>3406</u>

RESERVOIR DATA SUMMARY

KDA ZONE SOUTH
UNDESIGNATED DAKOTA FIELD
MCKINLEY COUNTY, NEW MEXICO

Reservoir Temperature	-	107°F
Original Reservoir Pressure	-	964 psig
Gas Gravity	-	.758 (air = 1)
Gas Formation Volume Factor @ Original Conditions	-	72.58 $\frac{\text{SCF}}{\text{ft}^3}$
Porosity	-	18.5%
Permeability Index	-	82.6 md
Water Saturation	-	38.7%
Areal Extent	-	1419.62 Acres
Gross Volume	-	9421.7 Ac-Ft.
Original Gas-in-place	-	3,373 MMSCF
Recoverable Gas	-	3,053 MMSCF
Number of Completions	-	2
Average Depth	-	2750'

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

Lease EXHIBIT NO. E

CASE NO. 4584

SFPRR #8
Dakota Section

Top of 16% Porosity

Kda

Perfs 2676-80

Base of 16% porosity

Perfs 2685'-93'

2700

Base of Sand

Kdb

Top of Sand

2800

Base of Sand

Top of Sand

Kdd

Perfs 2860'-66' Squeezed 12/70

Perfs 2879'-82' Squeezed 10/71

Base of Sand