Date : 4-26-89

To : State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Sante Fe, New Mexico 87501
Attn: David Catanach

Rec'd 4-27-89

New Mexico Oil Conservation Department
P.O. Box 1980
Hobbs, New Mexico 88341-1980
Attn: Jerry Sexton

From : Sirgo Operating Inc.
P.O. Box 3531
Midland, Texas 79702

Re : West Dollarhide Queen Sand Unit
Ammendment to Exhibit "A" for Approved C-108

We have recently been fortunate enough to secure financing to complete the drilling and deepening project in the subject field. This will enable us to place the field on full injection. The "Finacial Agency" that has recently agreed to supply us with the necessary funds to complete this project, has done so with the stipulation that we begin on June 1st, 1989.

In an effort to save money in completing this project we have taken another look at how we will go about drilling and deepening wells. We have found that it is considerably less expensive to deepen an existing well and convert it to injection, than it is to drill a new replacement well (and plug the existing well that it is replacing).

Of the wells appearing on the approved exhibit "A", we have drilled one of the new wells and completed it as an injection well (no. 111), and performed 12 of the deepenings:

Well No.s 8, 9, 13, 14, 18, 20, 24, 25, 33, 35, 36, 47.

All of these deepenings were successful. Originally we believed that the success ratio of deepenings would be low, so we only asked for approval on 22 wells. We now believe we can be successful on more of these deepenings.

With this in mind we have looked at the existing wells (that were going to be plugged and replaced with new wells), and have choose those wells that we believe we can successfully deepen and convert to injection. This would mean that fewer new wells would have to be drilled.

Because of these findings we wish to ammend Exhibit "A" of the approved C-108 (of April 4th, 1988). The original Exhibit "A" listed 22 wells that were to be deepened and converted to injection, and 30 wells that were to be drilled and completed as injection wells. We need to substitute 13 deepenings for 13 new wells. The total number of wells will be the same, and the approximate location and pattern is the same. Please see attached color coded map.

Please find below a list of the these "substitute" wells we will deepen and convert to injection, and the corresponding (new well) that will not be drilled (or the well it would replace on the original C-108 Exhibit "A").

R-3768

Well	Description							Replacing
2:	660'	FSL	2310'	FWL,	Unit N,	Sec 19,	T24S, R38E.	128
3:	660'	FSL	990'	FWL,	Unit M,	Sec 19,	T24S, R38E.	129
5:	990'	FNL	2310'	FWL,	Unit C,	Sec 30,	T24S, R38E.	131
7:	2310'	FNL	330'	FWL,	Unit E,	Sec 29,	T24S, R38E.	108
15:	1650'	FSL	510'	FEL,	Unit I,	Sec 30,	T24S, R38E.	152
19:	330'	FSL	1650'	FEL,	Unit O,	Sec 30,	T24S, R38E.	153
22:	330'	FNL	990'	FWL,	Unit D,	Sec 31,	T24S, R38E.	133
27:	990'	FNL	1650'	FWL,	Unit C,	Sec 32,	T24S, R38E.	110
30:	2310'	FNL	330'	FWL,	Unit E,	Sec 32,	T24S, R38E.	136
34:	1980'	FNL	1650'	FEL,	Unit G,	Sec 31,	T24S, R38E.	138
36:	2260'	FSL	2309'	FWL,	Unit K,	Sec 31,	T24S, R38E.	139
38:	2310'	FSL	1650'	FWL,	Unit K,	Sec 32,	T24S, R38E.	140
39:	1980'	FSL	2310'	FEL,	Unit J,	Sec 32,	T24S, R38E.	143

Also find attached a "current and proposed wellbore diagram" for each of the wells listed above.

Because I am under serious time constraints, please address this matter as soon as possible. I am ready and willing to help you in any way to attain approval before June 1st, 1989 so that my relationship with the "Financial Agency" is not jeopordized.

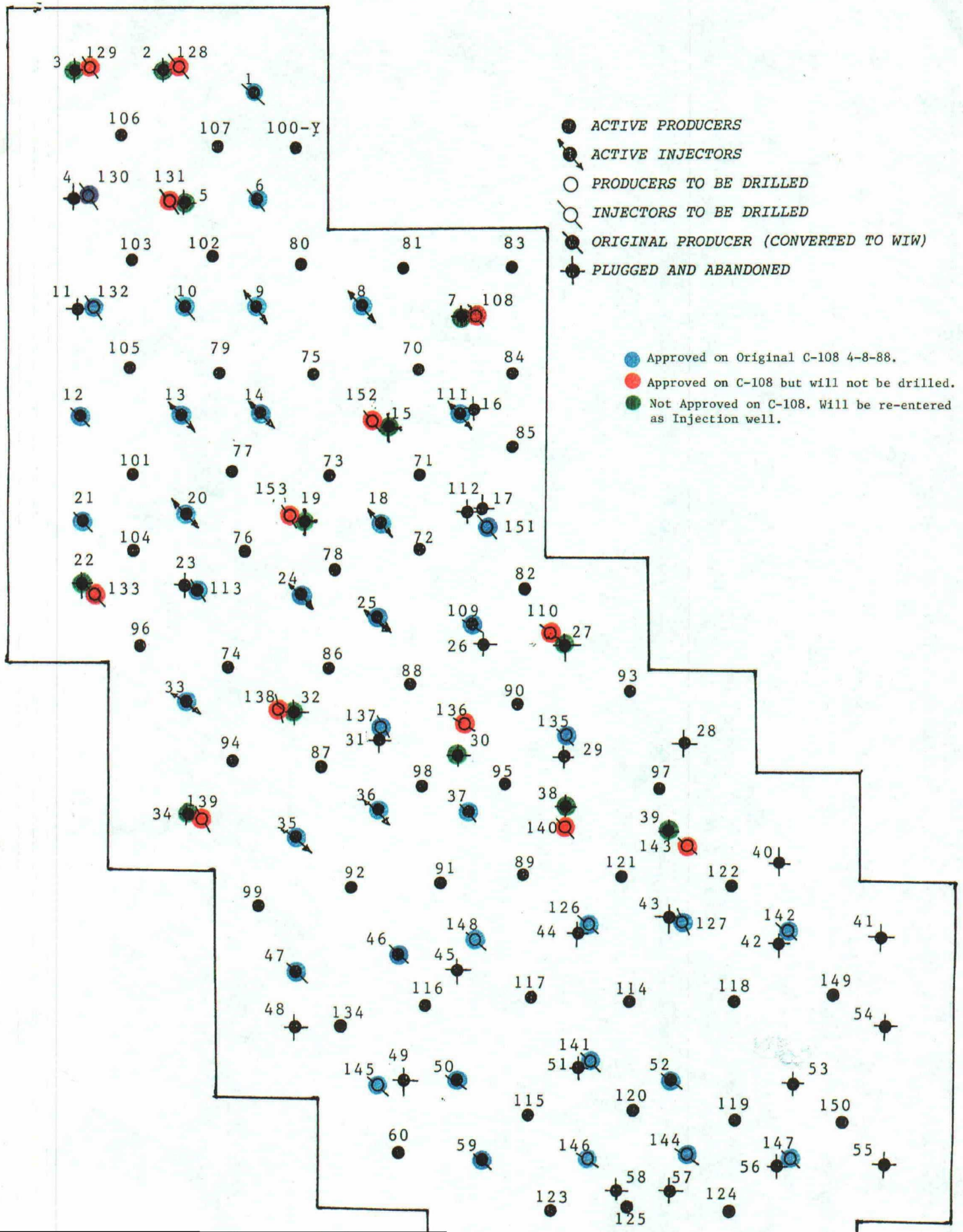
Please call me if you need any additional information. Thank You.

Victor J. Sirgo

Victor J. Sirgo

R-2356

2
22
30
39


ACTIVE PRODUCERS
ACTIVE INJECTORS
PRODUCERS TO BE DRILLED
INJECTORS TO BE DRILLED
ORIGINAL PRODUCER (CONVERTED TO WIW)
PLUGGED AND ABANDONED
Approved on Original C-108 4-8-88.
Approved on C-108 but will not be drilled.
Not Approved on C-108. Will be re-entered as Injection well.
3 129 2 128 1
106 107 100-Y
4 130 131 5 6
103 102 80 81 83
11 132 10 9 8 7 108
105 79 75 70 84
12 13 14 152 15 111 16 85
101 77 73 71
21 20 153 19 18 112 17 151
104 76 72
22 133 23 113 24 78 82
25 109 110 27
96 26
74 86 88 93
33 138 32 90
137 136 135 28
94 31 30 29
87 98 95 97
36 37 38
34 139 35 140 39
143 40
92 91 89 121 122
99
126 43 127 142 41
148 44 42
46 45
47 116 117 114 118 149
48 134 54
141 49 52 53
145 51 50
115 120 119 150
60 59 146 144 147 55
58 57 56
123 124
125

West Dollarhide Queen Sand Unit
Well No. 2
Procedure for deepening and Completing as an Injection Well

1) Notify regulatory agency and move in, rig up pulling unit and reverse unit.

2) Pick 4-3/4" bit and drill collars. Trip in hole on 2-7/8" workstring.

3) Drill out cement plug from surface to 10'.

4) Drill out cement plug from 890' to 1772'.

5) Drill out cement from 3559' to 3685', Drill out Bridge Plug at 3685'.

6) Drill New hole from 3753' to 4040. Circulate hole clean and pull out of hole.

7) Run in hole with 538' of 2-7/8" 6.5# J-55 liner on 2-7/8" workstring. Set liner on bottom and establish circulation.

8) Notify regulatory agency and pump 50 sx class "C" cement.

Annular Space calculation:

Have 323' of 2-7/8" x 4-3/4" (.078 FT3/FT)	=	25.19 FT3
Have 215' of 2-7/8" x 5-1/2" (.0886 FT3/FT)	=	19.05 FT3
Total Annular Space	=	44.24 FT3
Class "C" cement yield is 1.32 FT3 / Sack	=	33.52 SX
Use 50% Excess	=	50 sx

9) Turn off of liner top and reverse tubing clean. Pull out of hole. Wait 48 hrs for cement to harden.

10) After 24 hrs. Rig up wireline and run cement bond log to check for height of cement behind 2-7/8" liner. If Cement top is well into the 5-1/2" casing proceed to Step 11. If Cement top is not into the 5-1/2" casing then continue with this step.

a) Trip in hole with 5-1/2" packer. and set packer 250' above liner top or (3252'). Notify regulatory agency and squeeze liner top with 25 sx of class "C" cement. Leave Packer set over night. Check for Flowback. Pull out of hole.

b) Trip in hole with 4-3/4" bit and clean out to liner top. Pull out of hole.

11) Trip in hole with 2-1/4" blade bit and clean out to 3960'. Circlate hole clean and pull out of hole.

12) Rig up wireline and run GR-CNL-CCL from 3960' up to 2000', run GR from 2000' up to surface.

13) Run in hole with perforating guns, and perforate Queen (approx. 3702' to 3824'). Pull out of hole.

14) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

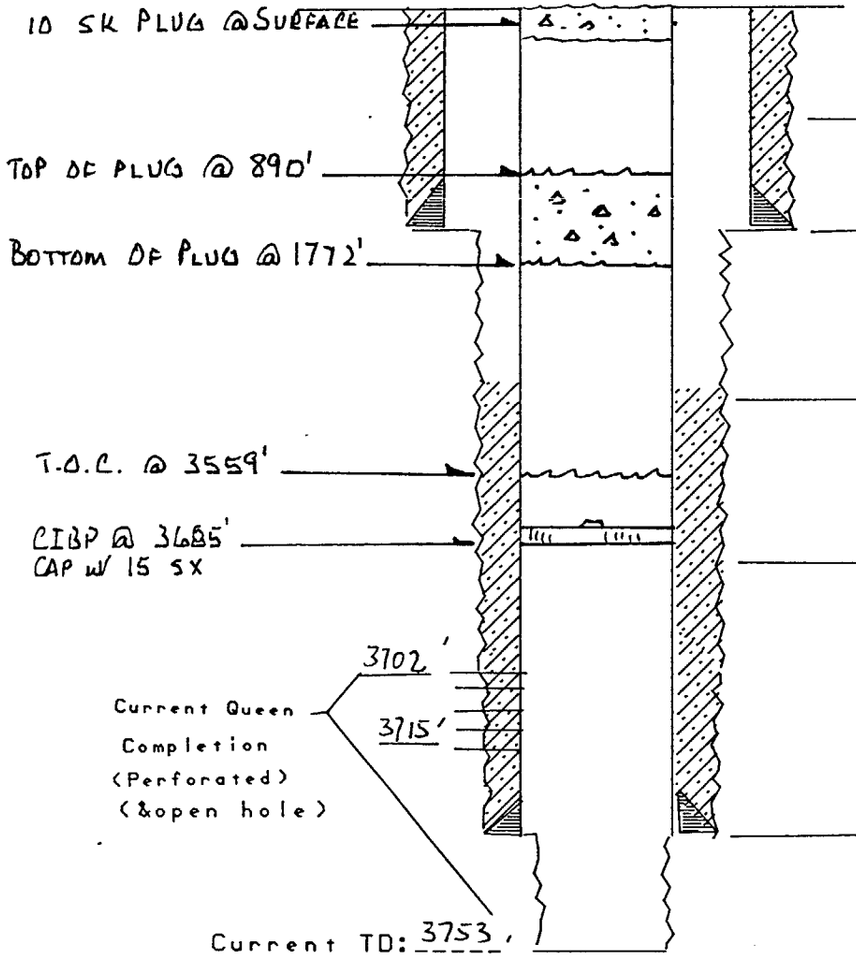
15) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer in liner top. Notify regulatory agency and test backside to 500 psi for 30 minutes.

16) Nipple up injection head, and place well on injection.

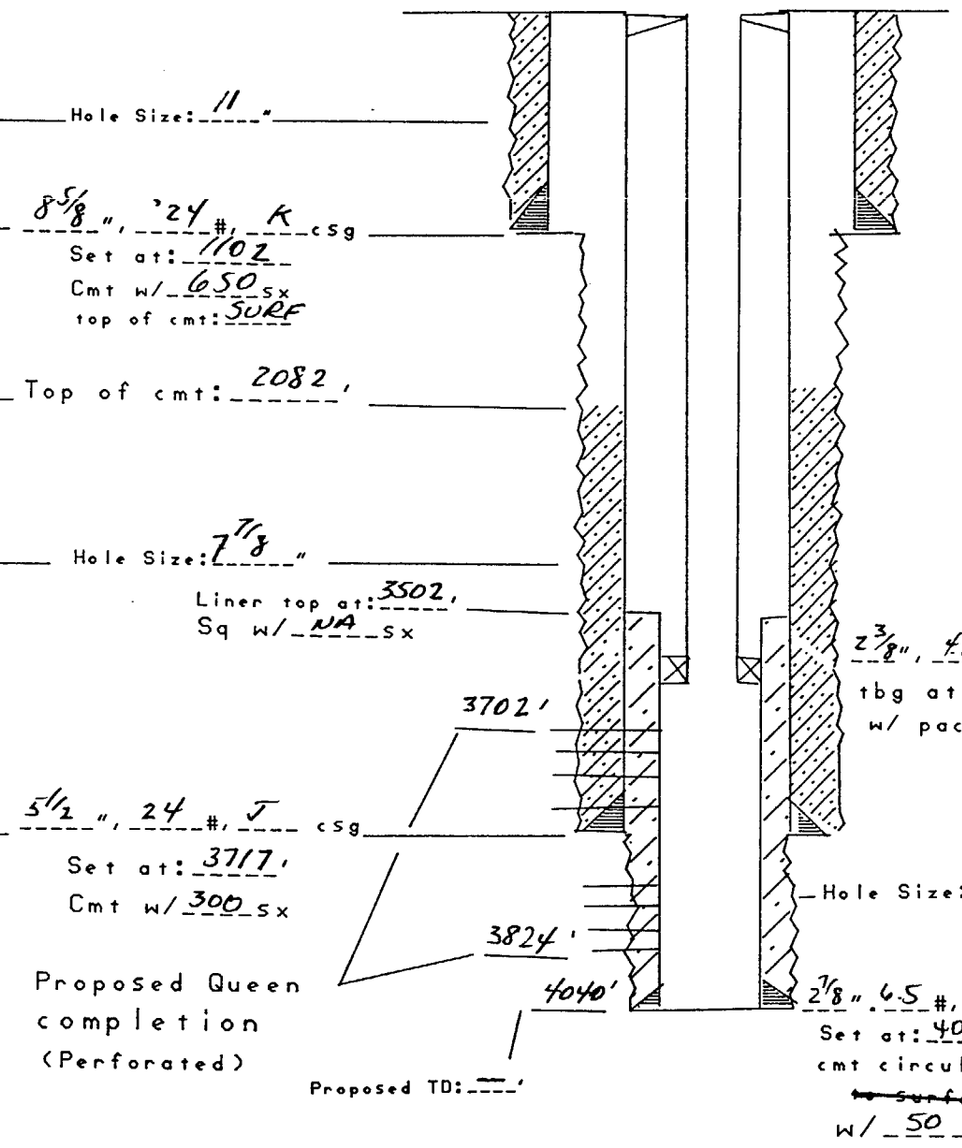
17) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 2

Current Wellbore Diagram



Proposed Wellbore Diagram



West Dollarhide Queen Sand Unit
Well No. 3
Procedure for deepening and Completing as an Injection Well

1) Notify regulatory agency and move in, rig up pulling unit and reverse unit.

2) Pick 4-3/4" bit and drill collars. Trip in hole on 2-7/8" workstring.

3) Drill out cement plug from surface to 10'.

4) Drill out cement plug from 909' to 1791'.

5) Drill out cement from 3524' to 3650', Drill out Bridge Plug at 3650'. Drill out cmt from 3694' to 3714'.

6) Drill New hole from 3714' to 4054. Circulate hole clean and pull out of hole.

7) Run in hole with 568' of 2-7/8" 6.5# j-55 liner on 2-7/8" workstring. Set liner on bottom and establish circulation.

8) Notify regulatory agency and pump 50 sx class "C" cement.

Annular Space calculation:

Have 358' of 2-7/8" x 4-3/4" (.078 FT3/FT)	=	27.92 FT3
Have 211' of 2-7/8" x 5-1/2" (.0886 FT3/FT)	=	18.69 FT3
Total Annular Space	=	46.61 FT3
Class "C" cement yield is 1.32 FT3 / Sack	=	36.31 SX
Use 50% Excess	=	50 sx

9) Turn off of liner top and reverse tubing clean. Pull out of hole. Wait 48 hrs for cement to harden.

10) After 24 hrs. Rig up wireline and run cement bond log to check for height of cement behind 2-7/8" liner. If Cement top is well into the 5-1/2" casing proceed to Step 11. If Cement top is not into the 5-1/2" casing then continue with this step.

a) Trip in hole with 5-1/2" packer. and set packer 250' above liner top or (3235'). Notify regulatory agency and squeeze liner top with 25 sx of class "C" cement. Leave Packer set over night. Check for flowback. Pull out of hole.

b) Trip in hole with 4-3/4" bit and clean out to liner top. Pull out of hole.

11) Trip in hole with 2-1/4" blade bit and clean out to 3974'. Circlate hole clean and pull out of hole.

12) Rig up wireline and run GR-CNL-CCL from 3974' up to 2000', run GR from 2000' up to surface.

13) Run in hole with perforating guns, and perforate Queen (approx. 3685' to 3736'). Pull out of hole.

14) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

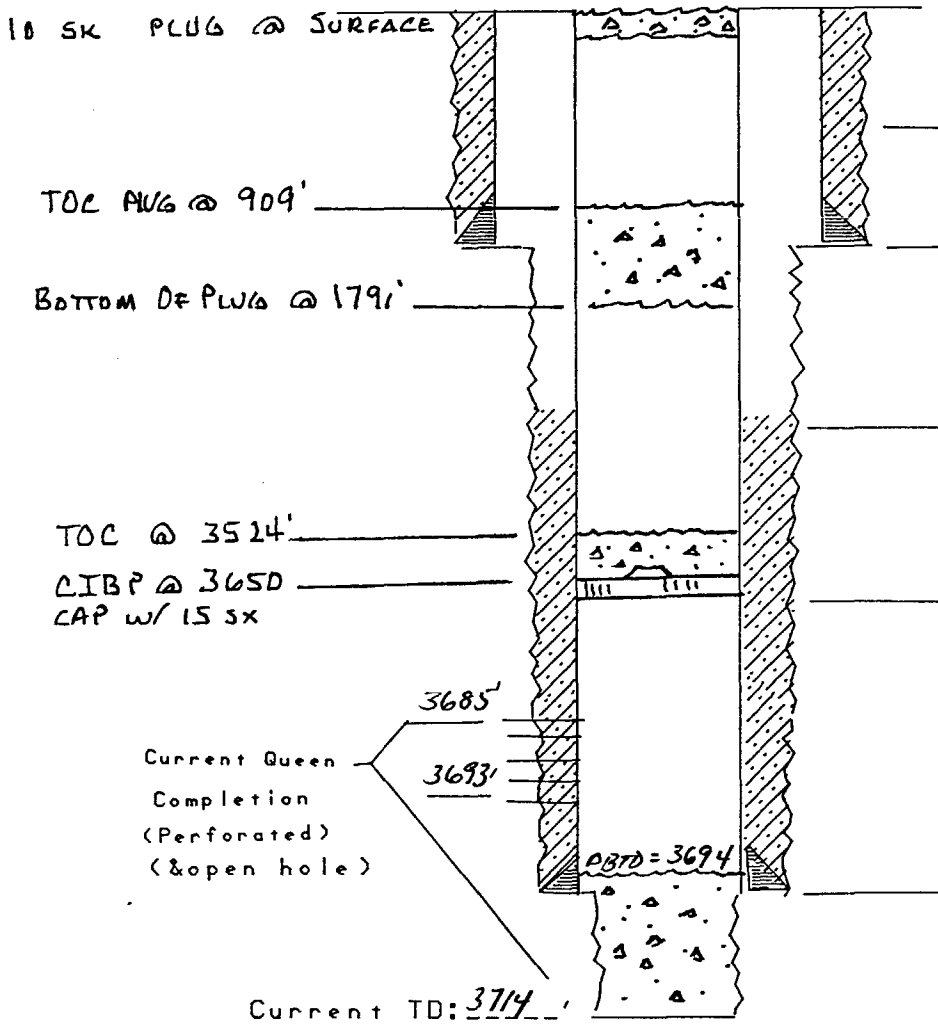
15) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer in liner top. Notify regulatory agency and test backside to 500 psi for 30 minutes.

16) Nipple up injection head, and place well on injection.

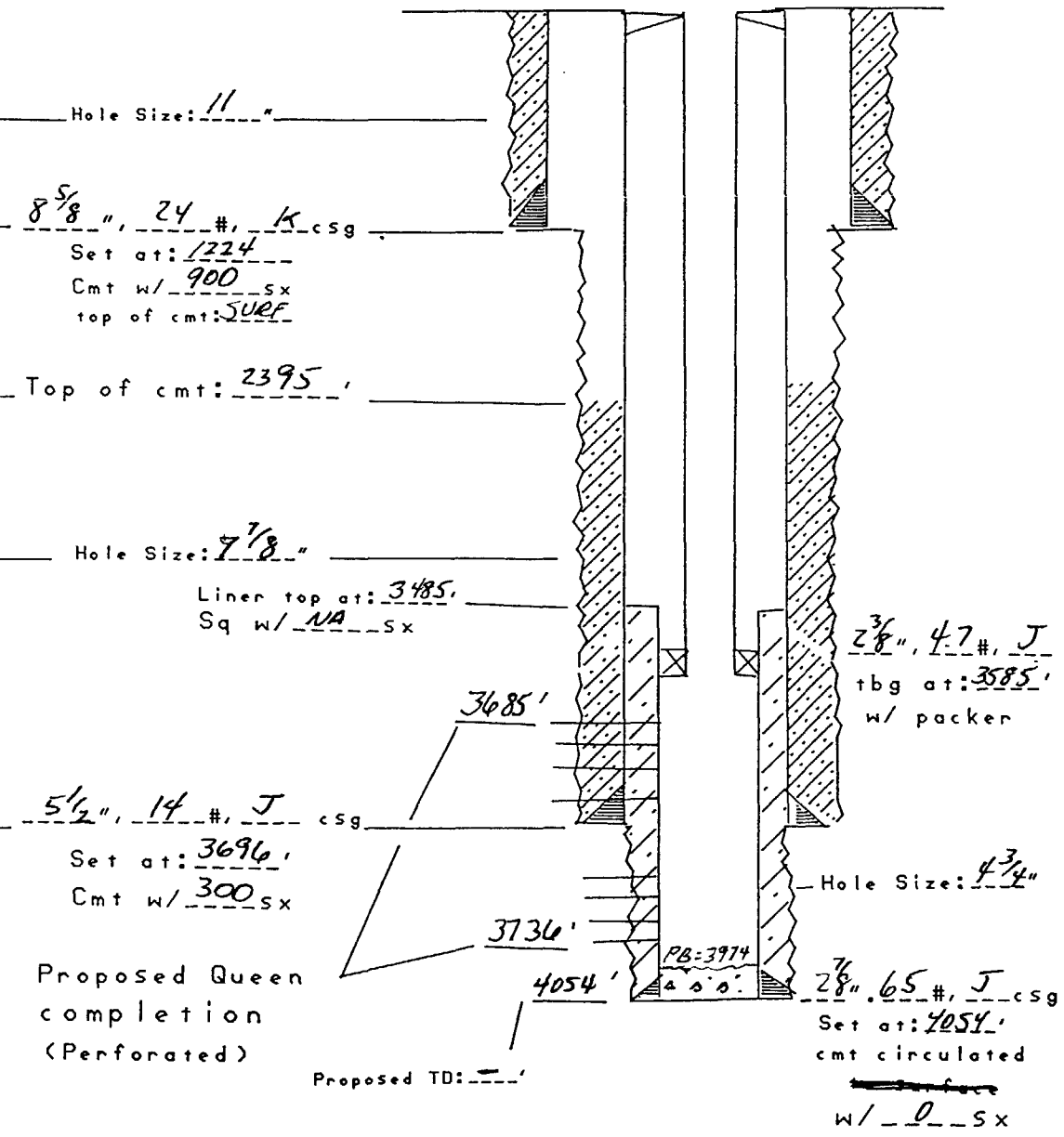
17) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 3

Current Wellbore Diagram



Proposed Wellbore Diagram



West Dollarhide Queen Sand Unit
Well No. 5
Procedure for deepening and Completing as an Injection Well

1) Notify regulatory agency and move in, rig up pulling unit and reverse unit.

2) Pick 4-3/4" bit and drill collars. Trip in hole on 2-7/8" workstring.

3) Drill out cement plug from surface to 10'.

4) Drill out cement plug from 926' to 1808'.

5) Drill out cement from 3318' to 3514', Drill out Bridge Plug at 3514'.

6) Drill New hole from 3756' to 4054. Circulate hole clean and pull out of hole.

7) Run in hole with 568' of 2-7/8" 6.5# j-55 liner on 2-7/8" workstring. Set liner on bottom and establish circulation.

8) Notify regulatory agency and pump 50 sx class "C" cement.

Annular Space calculation:

Have 269' of 2-7/8" x 4-3/4" (.078 FT3/FT)	=	20.98 FT3
Have 299' of 2-7/8" x 5-1/2" (.0886 FT3/FT)	=	26.49 FT3
Total Annular Space	=	47.47 FT3
Class "C" cement yield is 1.32 FT3 / Sack	=	35.96 SX
Use 50% Excess	=	50 sx

9) Turn off of liner top and reverse tubing clean. Pull out of hole. Wait 48 hrs for cement to harden.

10) After 24 hrs. Rig up wireline and run cement bond log to check for height of cement behind 2-7/8" liner. If Cement top is well into the 5-1/2" casing proceed to Step 11. If Cement top is not into the 5-1/2" casing then continue with this step.

a) Trip in hole with 5-1/2" packer. and set packer 250' above liner top or (3486'). Notify regulatory agency and squeeze liner top with 25 sx of class "C" cement. Leave Packer set over night. Check for flowback. Pull out of hole.

b) Trip in hole with 4-3/4" bit and clean out to liner top. Pull out of hole.

11) Trip in hole with 2-1/4" blade bit and clean out to 3974'. Circlate hole clean and pull out of hole.

12) Rig up wireline and run GR-CNL-CCL from 3974' up to 2000', run GR from 2000' up to surface.

13) Run in hole with perforating guns, and perforate Queen (approx. 3686' to 3846'). Pull out of hole.

14) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

15) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer in liner top. Notify regulatory agency and test backside to 500 psi for 30 minutes.

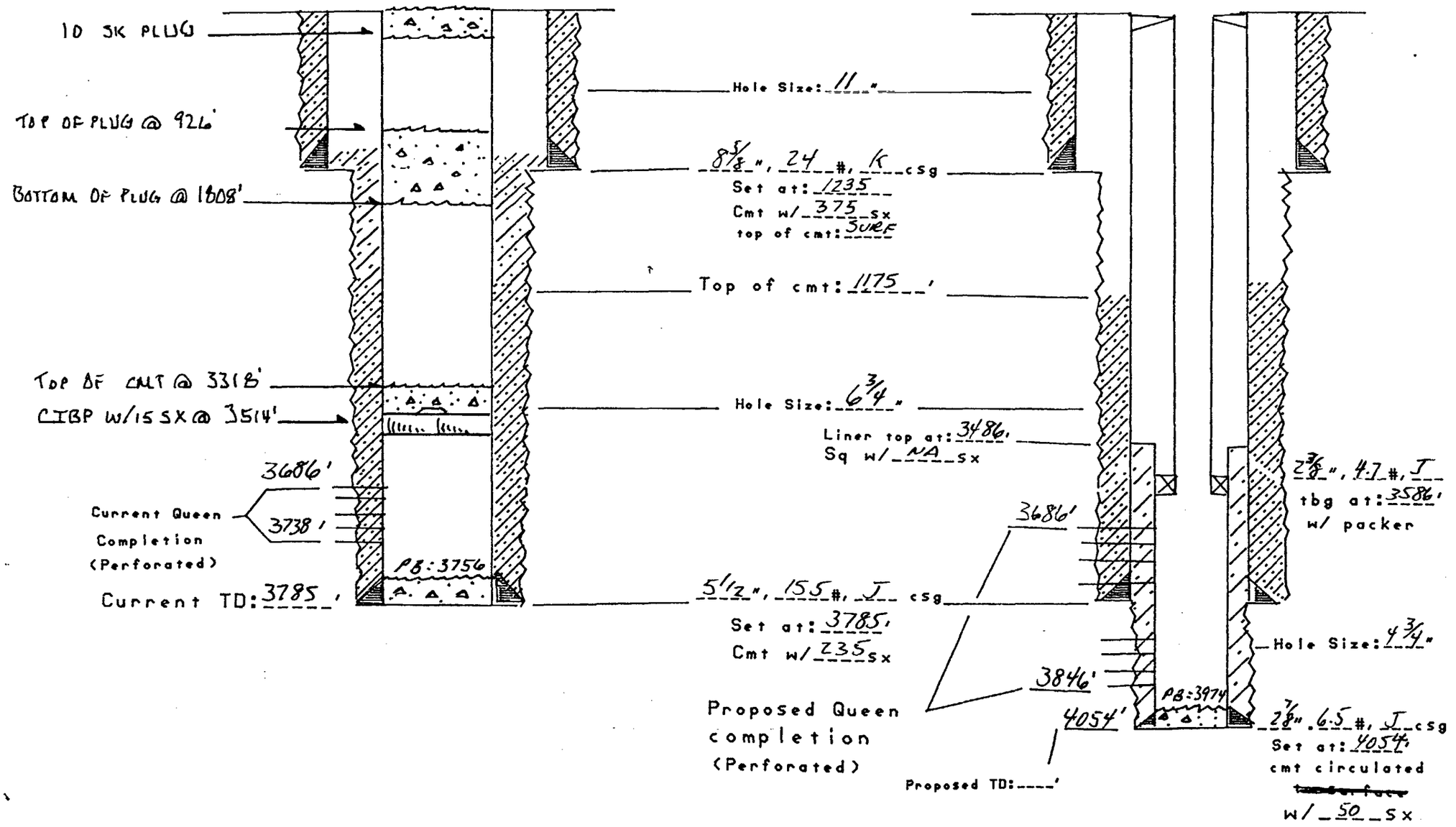
16) Nipple up injection head, and place well on injection.

17) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 5

Current Wellbore Diagram

Proposed Wellbore Diagram



West Dollarhide Queen Sand Unit
Well No. 7
Procedure for deepening and Completing as an Injection Well

1) Notify regulatory agency and move in, rig up pulling unit and reverse unit.

2) Unset packer and pull tubing and packer out of hole.

3) Run in hole with 4-3/4" bit and collars on 2-7/8" workstring.

4) Drill new hole from 3820' to 4030', circulate hole clean and pull out of hole.

5) Run in hole with 520' of 2-7/8" 6.5# j-55 liner on 2-7/8" workstring. Set liner on bottom and establish circulation.

6) Notify regulatory agency and pump 50 sx class "C" cement.

Annular Space calculation:

Have 320' of 2-7/8" x 4-3/4" (.078 FT3/FT)	=	24.96 FT3
Have 200' of 2-7/8" x 5-1/2" (.0886 FT3/FT)	=	17.72 FT3
Total Annular Space	=	42.68 FT3
Class "C" cement yield is 1.32 FT3 / Sack	=	32.33 SX
Use 50% Excess	=	50 sx

7) Turn off of liner top and reverse tubing clean. Pull out of hole. Wait 48 hrs for cement to harden.

8) After 24 hrs. Rig up wireline and run cement bond log to check for height of cement behind 2-7/8" liner. If Cement top is well into the 5-1/2" casing proceed to Step 9. If Cement top is not into the 5-1/2" casing then continue with this step.

a) Trip in hole with 5-1/2" packer. and set packer 250' above liner top or (3260'). Notify regulatory agency and squeeze liner top with 25 sx of class "C" cement. Leave Packer set over night. Check for flowback. Pull out of hole.

b) Trip in hole with 4-3/4" bit and clean out to liner top. Pull out of hole.

9) Trip in hole with 2-1/4" blade bit and clean out to 3974'. Circlate hole clean and pull out of hole.

10) Rig up wireline and run GR-CNL-CCL from 3950' up to 2000', run GR from 2000' up to surface.

11) Run in hole with perforating guns, and perforate Queen (approx. 3704' to 3880'). Pull out of hole.

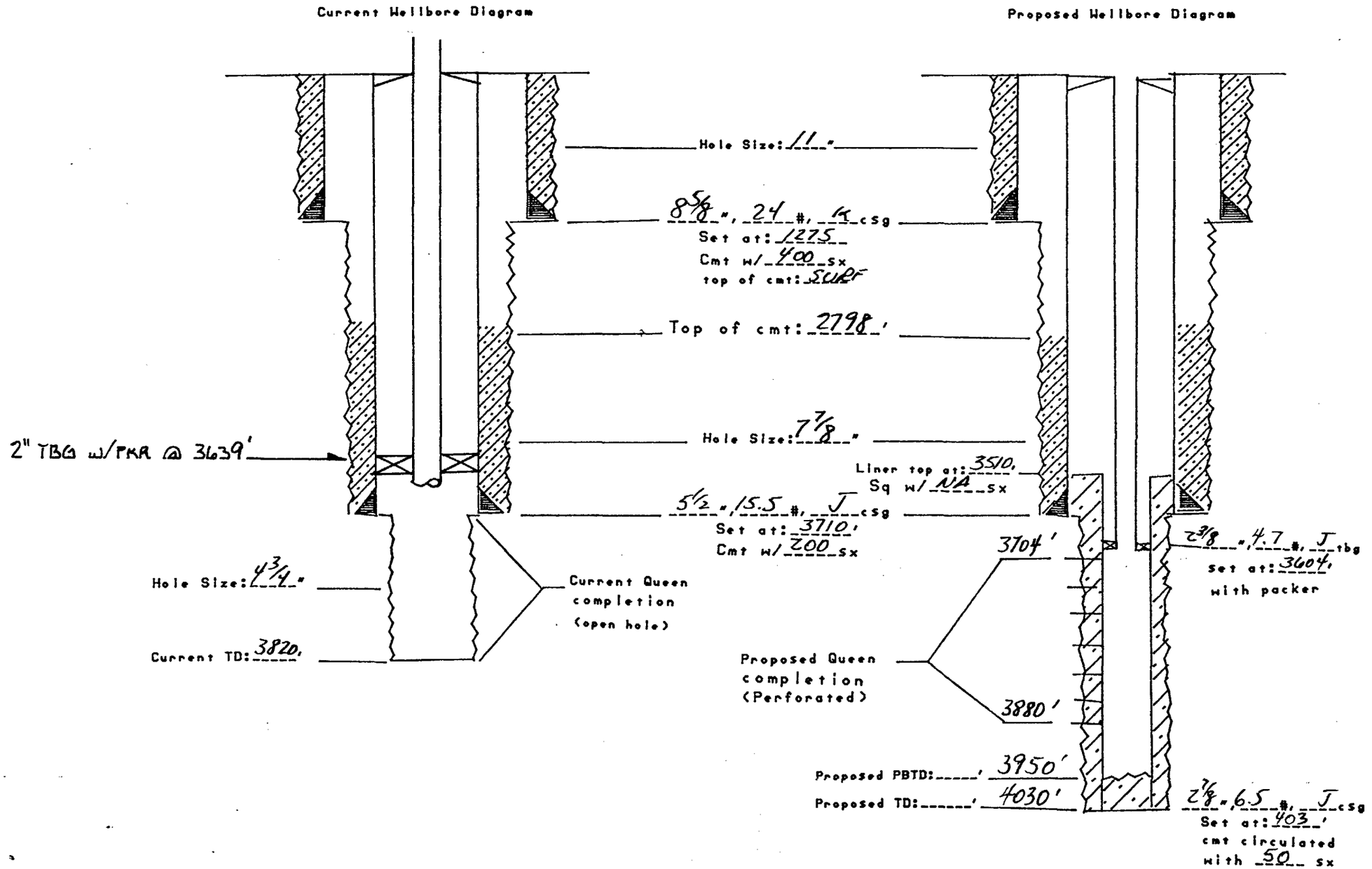
12) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

13) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer in liner top. Notify regulatory agency and test backside to 500 psi for 30 minutes.

14) Nipple up injection head, and place well on injection.

15) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 7



West Dollarhide Queen Sand Unit
Well No. 15
Procedure for deepening and Completing as an Injection Well

1) Notify regulatory agency and move in, rig up pulling unit and reverse unit.

2) Pick 6-1/8" bit and drill collars. Trip in hole on 2-7/8" workstring.

3) Drill out tight spot at 2000'.

4) Drill out CIBP at 3502.

5) Drill New hole from 3806' to 3950. Circulate hole clean and pull out of hole.

6) Run in hole with 3950' of 4-1/2" 10.5# j-55 liner. Set liner on bottom and establish circulation.

7) Notify regulatory agency and pump 585 sx class "C" cement.

Annular Space calculation:

Have 321' of 4-1/2" x 6-1/8"	(.0859 FT3/FT)	= 27.57 FT3
Have 3629' of 4-1/2" x 7"	(.1338 FT3/FT)	= 485.56 FT3
Total Annular Space		= 513.13 FT3
Class "C" cement yield is 1.32 FT3 / Sack		= 388.73 SX
Use 50% Excess		= 585 sx

8) After 24 hrs. Rig up wireline and run cement bond log to check for height of cement behind 4-1/2" csg.

a) Perform a braden head squeeze if necessary.

9) Trip in hole with 3-3/4" blade bit and clean out to 3870'. Circlate hole clean and pull out of hole.

10) Rig up wireline and run GR-CNL-CCL from 3870' up to 2000', run GR from 2000' up to surface.

11) Run in hole with perforating guns, and perforate Queen (approx. 3630' to 3850'). Pull out of hole.

12) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

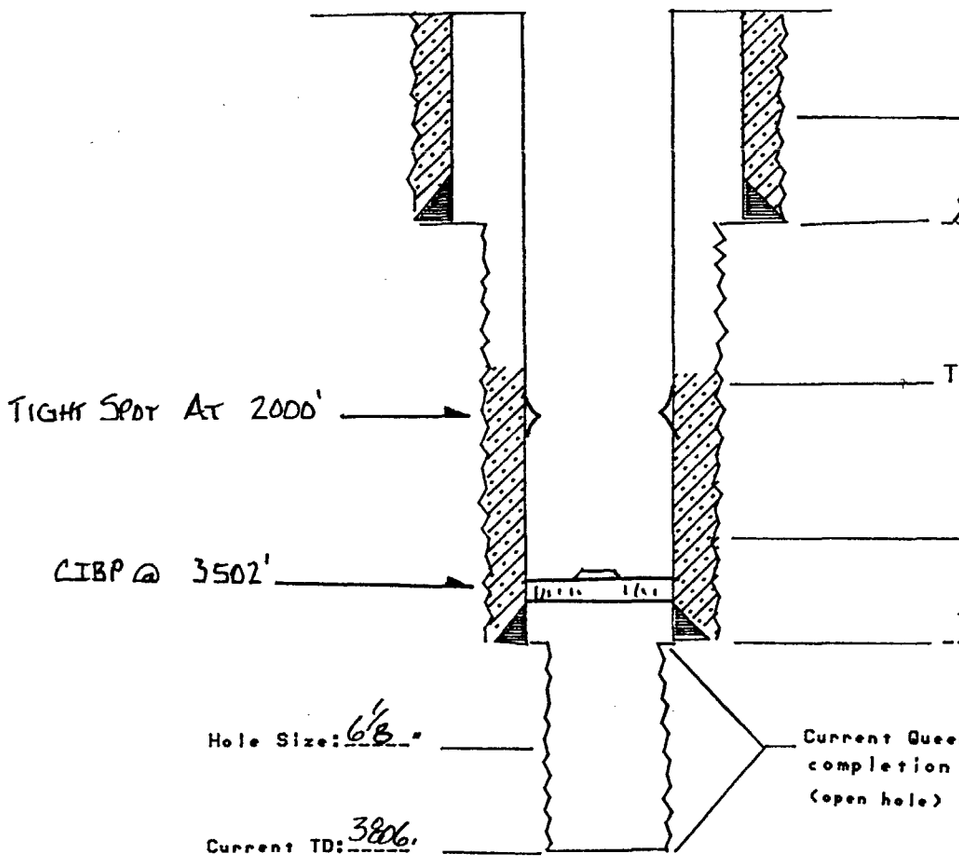
13) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer. Notify regulatory agency and test backside to 500 psi for 30 minutes.

14) Nipple up injection head, and place well on injection.

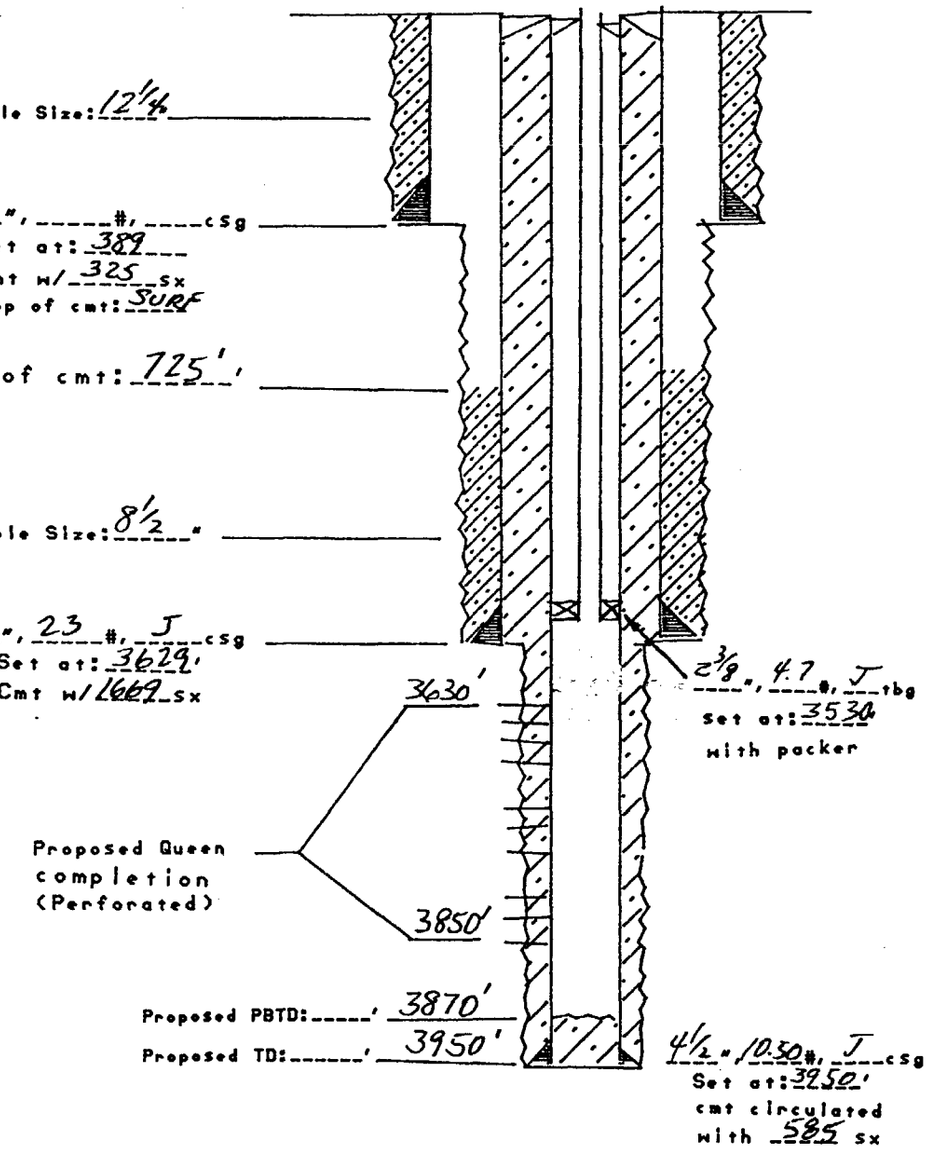
15) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 15

Current Wellbore Diagram



Proposed Wellbore Diagram



West Dollarhide Queen Sand Unit
Well No. 19
Procedure for deepening and Completing as an Injection Well

1) Notify regulatory agency and move in, rig up pulling unit and reverse unit.

2) Pick 6-1/8" bit and drill collars. Trip in hole on 2-7/8" workstring.

3) Drill out tight spot at 2000'.

4) Drill out pkr and 4' tbg at 3710'.

5) Drill out cement from 3720' to 3755'.

6) Drill New hole from 3755' to 3873. Circulate hole clean and pull out of hole.

7) Run in hole with 3873' of 4-1/2" 10.5# j-55 liner. Set liner on bottom and establish circulation.

7) Notify regulatory agency and pump 585 sx class "C" cement.

Annular Space calculation:

Have 118' of 4-1/2" x 6-1/8"	(.0859 FT3/FT)	= 10.13 FT3
Have 3755' of 4-1/2" x 7"	(.1338 FT3/FT)	= 502.42 FT3
Total Annular Space		= 512.55 FT3
Class "C" cement yield is 1.32 FT3 / Sack		= 388.29 SX
Use 50% Excess		= 585 sx

8) After 24 hrs. Rig up wireline and run cement bond log to check for height of cement behind 4-1/2" csg.

a) Perform a braden head squeeze if necessary.

9) Trip in hole with 3-3/4" blade bit and clean out to 3793'. Circlate hole clean and pull out of hole.

10) Rig up wireline and run GR-CNL-CCL from 3870' up to 2000', run GR from 2000' up to surface.

11) Run in hole with perforating guns, and perforate Queen (approx. 3587' to 3769'). Pull out of hole.

12) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

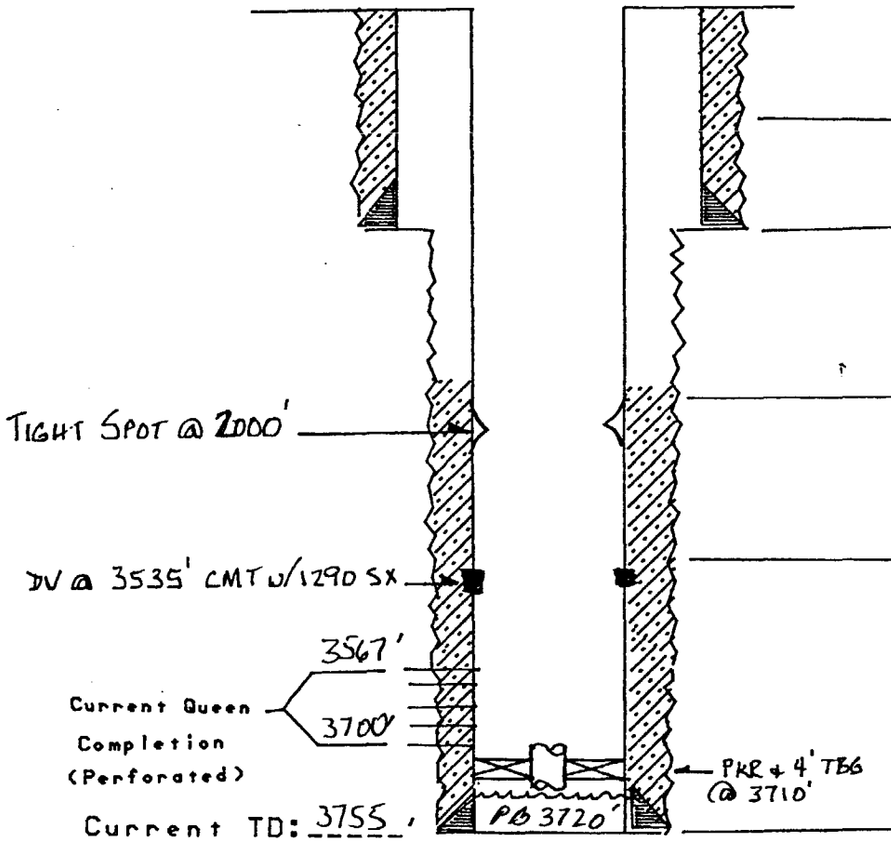
13) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer. Notify regulatory agency and test backside to 500 psi for 30 minutes.

14) Nipple up Injection head, and place well on injection.

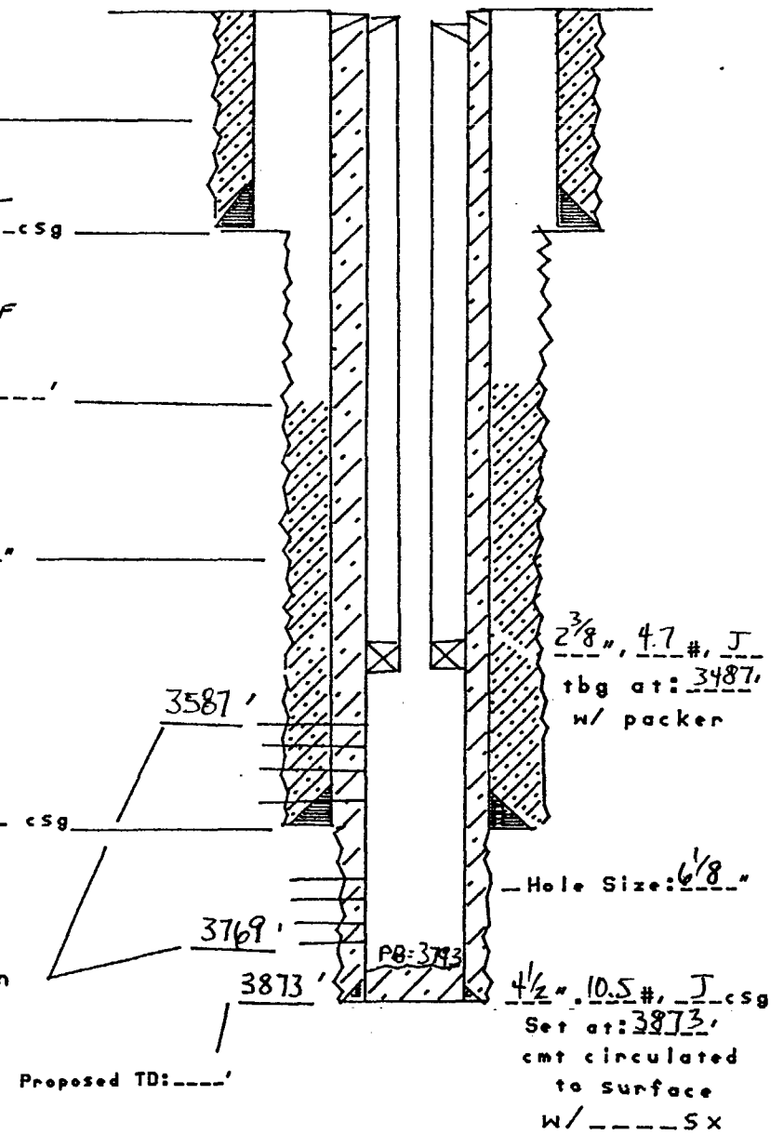
15) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 19

Current Wellbore Diagram



Proposed Wellbore Diagram



West Dollarhide Queen Sand Unit
Well No. 22
Procedure for deepening and Completing as an Injection Well

1) Notify regulatory agency and move in, rig up pulling unit and reverse unit.

2) Pull tubing and rods out of hole.

3) Run in hole with 4-3/4" bit and collars on 2-7/8" workstring.

4) Drill new hole from 3727' to 3964'. circulate hole clean and pull out of hole.

5) Run in hole with 545' of 2-7/8" 6.5# j-55 liner on 2-7/8" workstring. Set liner on bottom and establish circulation.

6) Notify regulatory agency and pump 50 sx class "C" cement.

Annular Space calculation:

Have 304' of 2-7/8" x 4-3/4" (.078 FT3/FT)	=	23.71 FT3
Have 241' of 2-7/8" x 5-1/2" (.0886 FT3/FT)	=	21.31 FT3
Total Annular Space	=	45.02 FT3
Class "C" cement yield is 1.32 FT3 / Sack	=	34.11 SX
Use 50% Excess	=	50 sx

7) Turn off of liner top and reverse tubing clean. Pull out of hole. Wait 48 hrs for cement to harden.

8) After 24 hrs. Rig up wireline and run cement bond log to check for height of cement behind 2-7/8" liner. If Cement top is well into the 5-1/2" casing proceed to Step 9. If Cement top is not into the 5-1/2" casing then continue with this step.

a) Trip in hole with 5-1/2" packer. and set packer 250' above liner top or (3439'). Notify regulatory agency and squeeze liner top with 25 sx of class "C" cement. Leave Packer set over night. Check for flowback. Pull out of hole.

b) Trip in hole with 4-3/4" bit and clean out to liner top. Pull out of hole.

9) Trip in hole with 2-1/4" blade bit and clean out to 3904'. Circlate hole clean and pull out of hole.

10) Rig up wireline and run GR-CNL-CCL from 3904' up to 2000', run GR from 2000' up to surface.

11) Run in hole with perforating guns, and perforate Queen (approx. 3639' to 3801'). Pull out of hole.

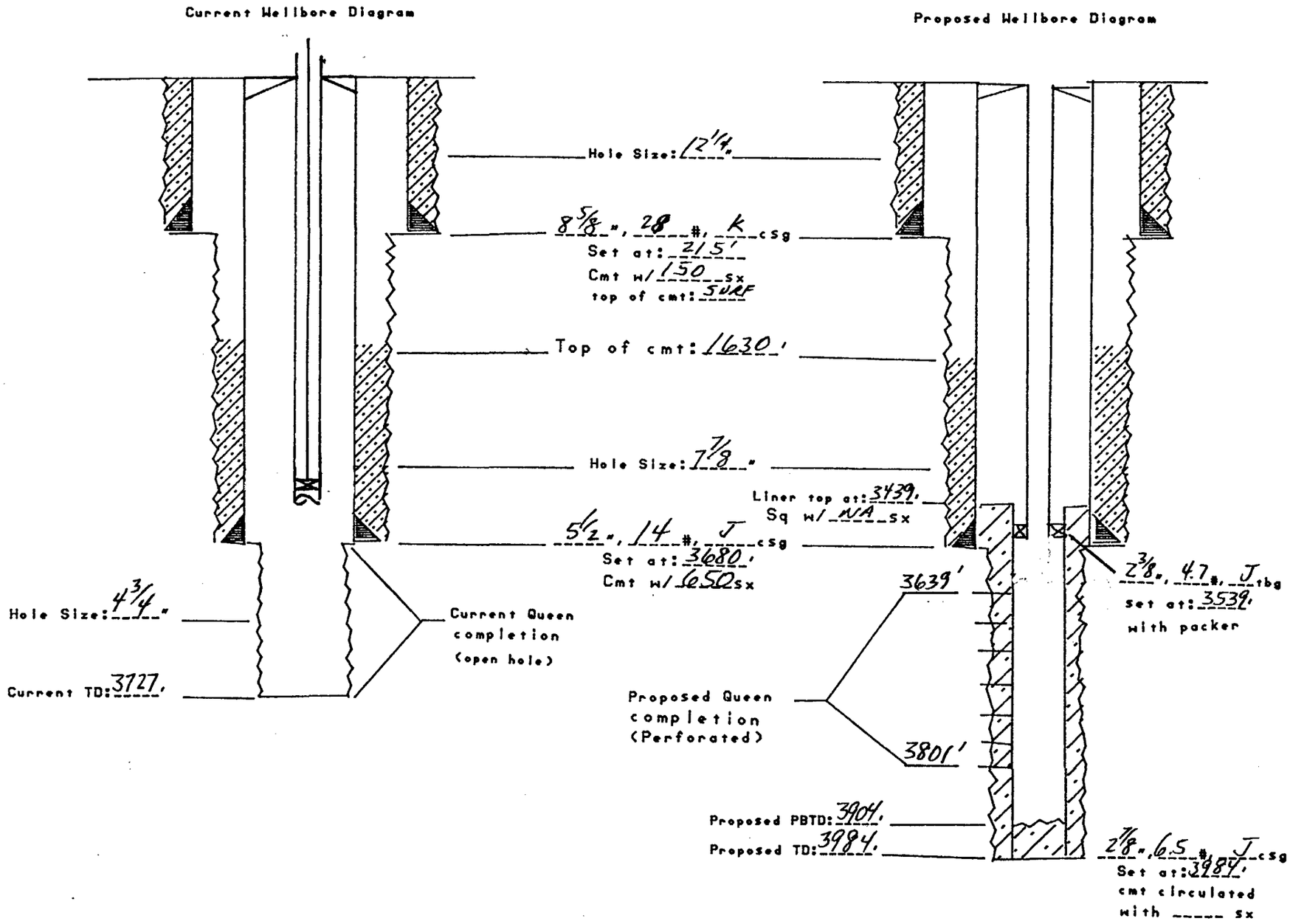
12) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

13) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer in liner top. Notify regulatory agency and test backside to 500 psi for 30 minutes.

14) Nipple up Injection head, and place well on injection.

15) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 22



West Dollarhide Queen Sand Unit
Well No. 27
Procedure for deepening and Completing as an Injection Well

1) Notify regulatory agency and move in, rig up pulling unit and reverse unit.

2) Pull tubing and rods out of hole.

3) Run in hole with 4-3/4" bit and collars on 2-7/8" workstring.

4) Drill new hole from 3812' to 4030', circulate hole clean and pull out of hole.

5) Run in hole with 590' of 2-7/8" 6.5# j-55 liner on 2-7/8" workstring. Set liner on bottom and establish circulation.

6) Notify regulatory agency and pump 50 sx class "C" cement.

Annular Space calculation:

Have 390' of 2-7/8" x 4-3/4" (.078 FT3/FT)	=	30.42 FT3
Have 200' of 2-7/8" x 5-1/2" (.0886 FT3/FT)	=	17.72 FT3
Total Annular Space	=	48.14 FT3
Class "C" cement yield is 1.32 FT3 / Sack	=	36.46 SX
Use 50% Excess	=	50 sx

7) Turn off of liner top and reverse tubing clean. Pull out of hole. Wait 48 hrs for cement to harden.

8) After 24 hrs. Rig up wireline and run cement bond log to check for height of cement behind 2-7/8" liner. If Cement top is well into the 5-1/2" casing proceed to Step 9. If Cement top is not into the 5-1/2" casing then continue with this step.

a) Trip in hole with 5-1/2" packer, and set packer 250' above liner top or (3190'). Notify regulatory agency and squeeze liner top with 25 sx of class "C" cement. Leave Packer set over night. Check for flowback. Pull out of hole.

b) Trip in hole with 4-3/4" bit and clean out to liner top. Pull out of hole.

9) Trip in hole with 2-1/4" blade bit and clean out to 3950'. Circlate hole clean and pull out of hole.

10) Rig up wireline and run GR-CNL-CCL from 3950' up to 2000', run GR from 2000' up to surface.

11) Run in hole with perforating guns, and perforate Queen (approx. 3666' to 3816'). Pull out of hole.

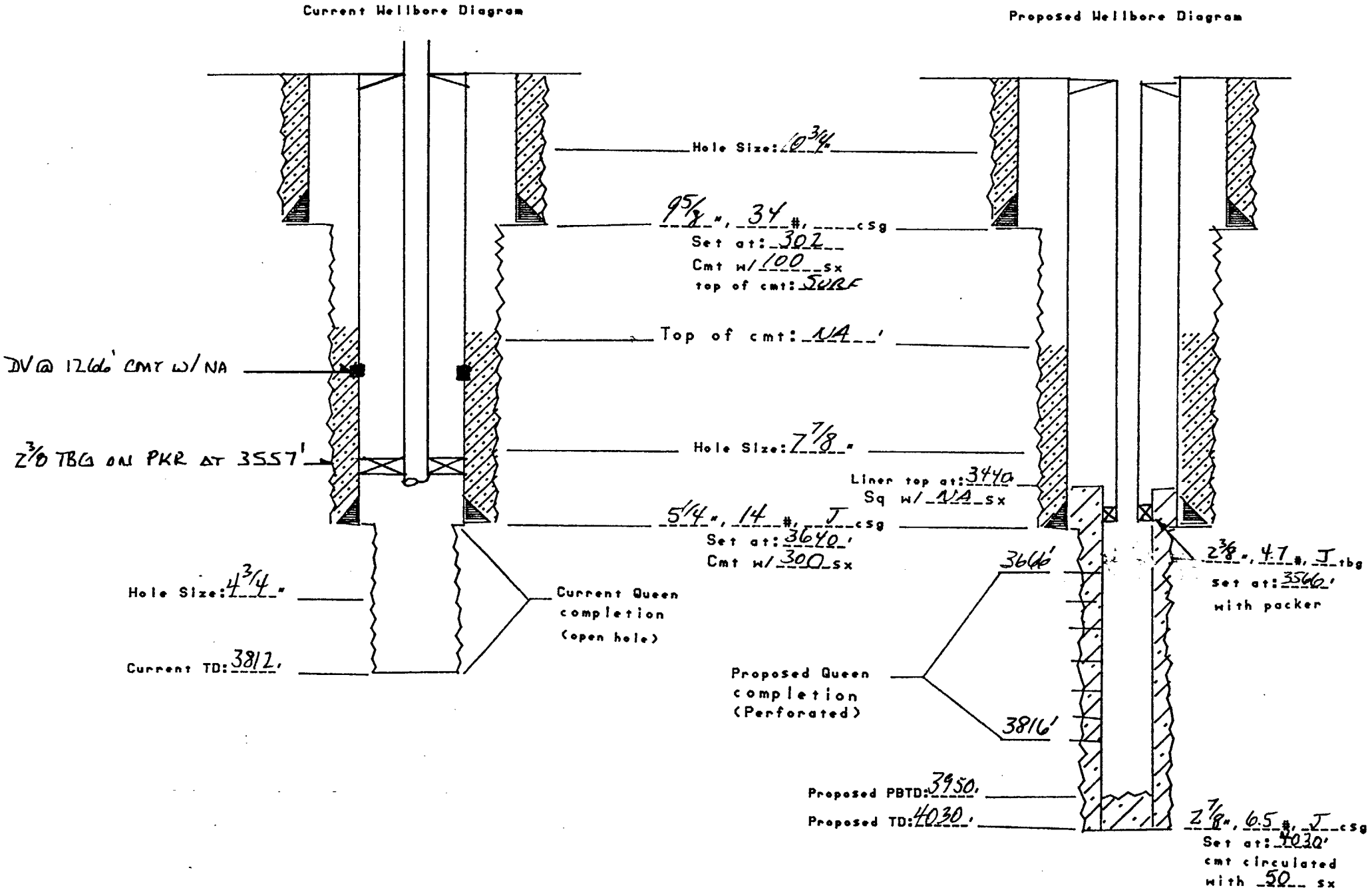
12) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

13) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer in liner top. Notify regulatory agency and test backside to 500 psi for 30 minutes.

14) Nipple up injection head, and place well on injection.

15) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 27



West Dollarhide Queen Sand Unit
Well No. 30
Procedure for deepening and Completing as an Injection Well

1) Notify regulatory agency and move in, rig up pulling unit and reverse unit.

2) Pull tubing and rods out of hole.

3) Run in hole with 4-3/4" bit and collars on 2-7/8" workstring.

4) Drill up mud anchor and new hole from 3770' to 3975'. circulate hole clean and pull out of hole.

5) Run in hole with 595' of 2-7/8" 6.5# j-55 liner on 2-7/8" workstring. Set liner on bottom and establish circulation.

6) Notify regulatory agency and pump 50 sx class "C" cement.

Annular Space calculation:

Have 395' of 2-7/8" x 4-3/4" (.078 FT3/FT)	=	30.81 FT3
Have 200' of 2-7/8" x 5-1/2" (.0886 FT3/FT)	=	17.72 FT3
Total Annular Space	=	48.53 FT3
Class "C" cement yield is 1.32 FT3 / Sack	=	36.76 SX
Use 50% Excess	=	50 sx

7) Turn off of liner top and reverse tubing clean. Pull out of hole. Wait 48 hrs for cement to harden.

8) After 24 hrs. Rig up wireline and run cement bond log to check for height of cement behind 2-7/8" liner. If Cement top is well into the 5-1/2" casing proceed to Step 9. If Cement top is not into the 5-1/2" casing then continue with this step.

a) Trip in hole with 5-1/2" packer. and set packer 250' above liner top or (3130'). Notify regulatory agency and squeeze liner top with 25 sx of class "C" cement. Leave Packer set over night. Check for flowback. Pull out of hole.

b) Trip in hole with 4-3/4" bit and clean out to liner top. Pull out of hole.

9) Trip in hole with 2-1/4" blade bit and clean out to 3897'. Circlate hole clean and pull out of hole.

10) Rig up wireline and run GR-CNL-CCL from 3897' up to 2000', run GR from 2000' up to surface.

11) Run in hole with perforating guns, and perforate Queen (approx. 3590' to 3758'). Pull out of hole.

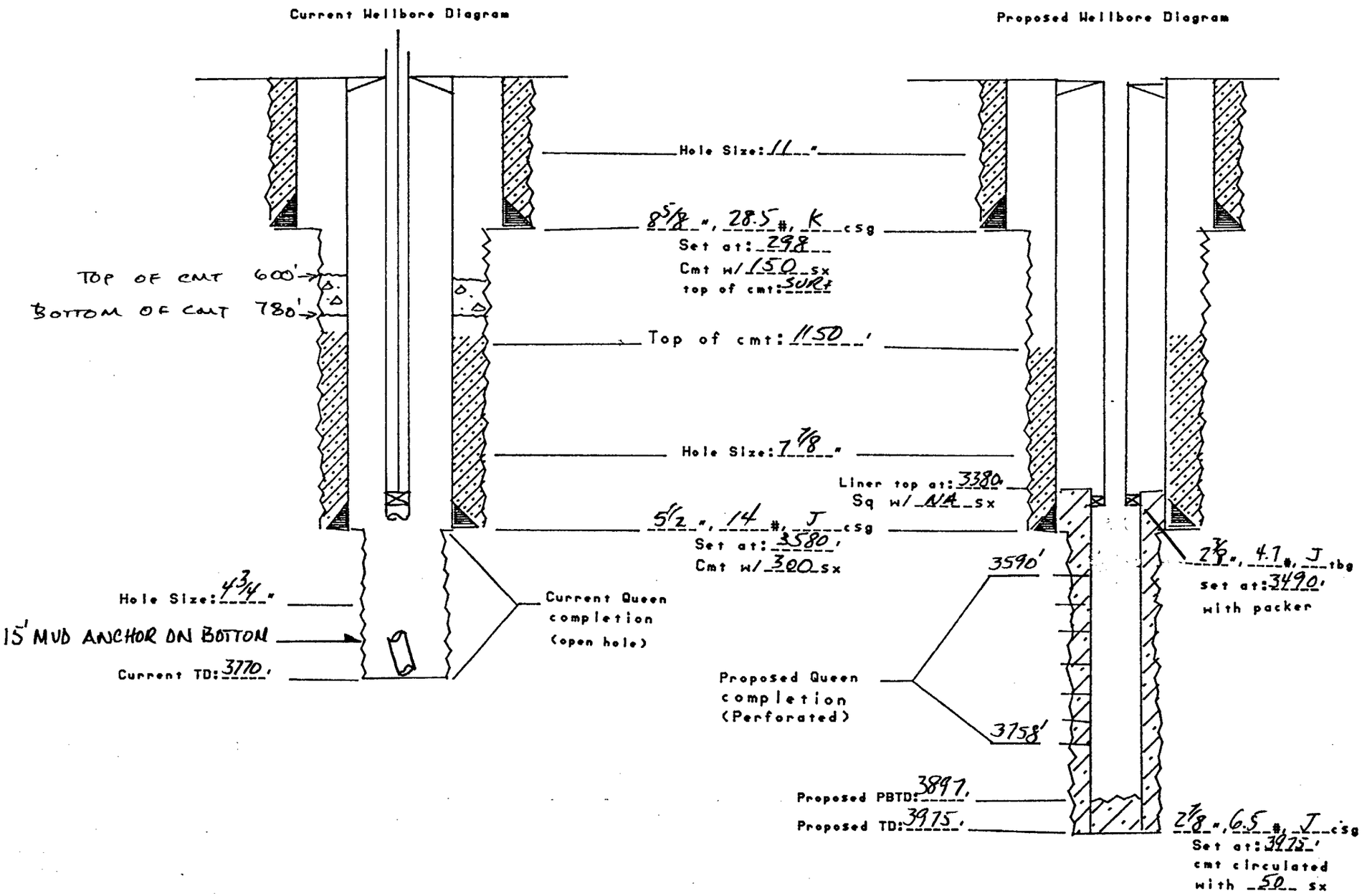
12) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

13) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer in liner top. Notify regulatory agency and test backside to 500 psi for 30 minutes.

14) Nipple up injection head, and place well on injection.

15) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 30



West Dollarhide Queen Sand Unit
Well No. 32
Procedure for deepening and Completing as an Injection Well

1) Notify regulatory agency and move in, rig up pulling unit and reverse unit.

2) Pull tubing and packer out of hole.

3) Run in hole with 4-3/4" bit and collars on 2-7/8" workstring.

4) Drill new hole from 3748' to 3954'. circulate hole clean and pull out of hole.

5) Run in hole with 462' of 2-7/8" 6.5# j-55 liner on 2-7/8" workstring. Set liner on bottom and establish circulation.

6) Notify regulatory agency and pump 45 sx class "C" cement.

Annular Space calculation:

Have 262' of 2-7/8" x 4-3/4" (.078 FT3/FT)	=	20.44 FT3
Have 200' of 2-7/8" x 5-1/2" (.0886 FT3/FT)	=	17.72 FT3
Total Annular Space	=	38.53 FT3
Class "C" cement yield is 1.32 FT3 / Sack	=	28.90 SX
Use 50% Excess	=	45 sx

7) Turn off of liner top and reverse tubing clean. Pull out of hole. Wait 48 hrs for cement to harden.

8) After 24 hrs. Rig up wireline and run cement bond log to check for height of cement behind 2-7/8" liner. If Cement top is well into the 5-1/2" casing proceed to Step 9. If Cement top is not into the 5-1/2" casing then continue with this step.

a) Trip in hole with 5-1/2" packer. and set packer 250' above liner top or (3222'). Notify regulatory agency and squeeze liner top with 25 sx of class "C" cement. Leave Packer set over night. Check for flowback. Pull out of hole.

b) Trip in hole with 4-3/4" bit and clean out to liner top. Pull out of hole.

9) Trip in hole with 2-1/4" blade bit and clean out to 3854'. Circlate hole clean and pull out of hole.

10) Rig up wireline and run GR-CNL-CCL from 3854' up to 2000', run GR from 2000' up to surface.

11) Run in hole with perforating guns, and perforate Queen (approx. 3562' to 3760'). Pull out of hole.

12) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

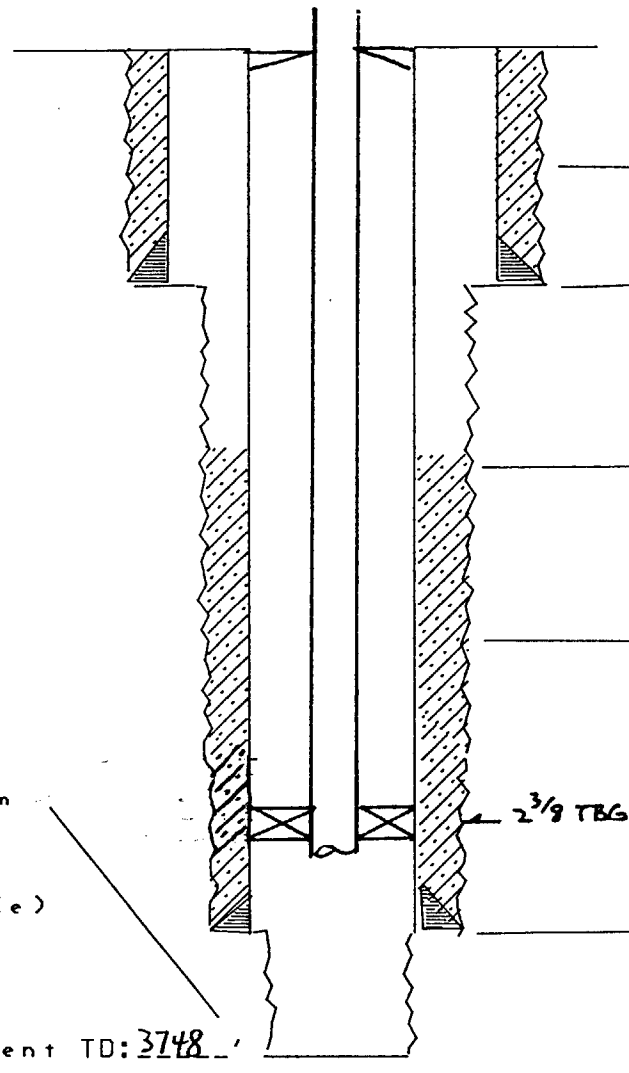
13) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer in liner top. Notify regulatory agency and test backside to 500 psi for 30 minutes.

14) Nipple up injection head, and place well on injection.

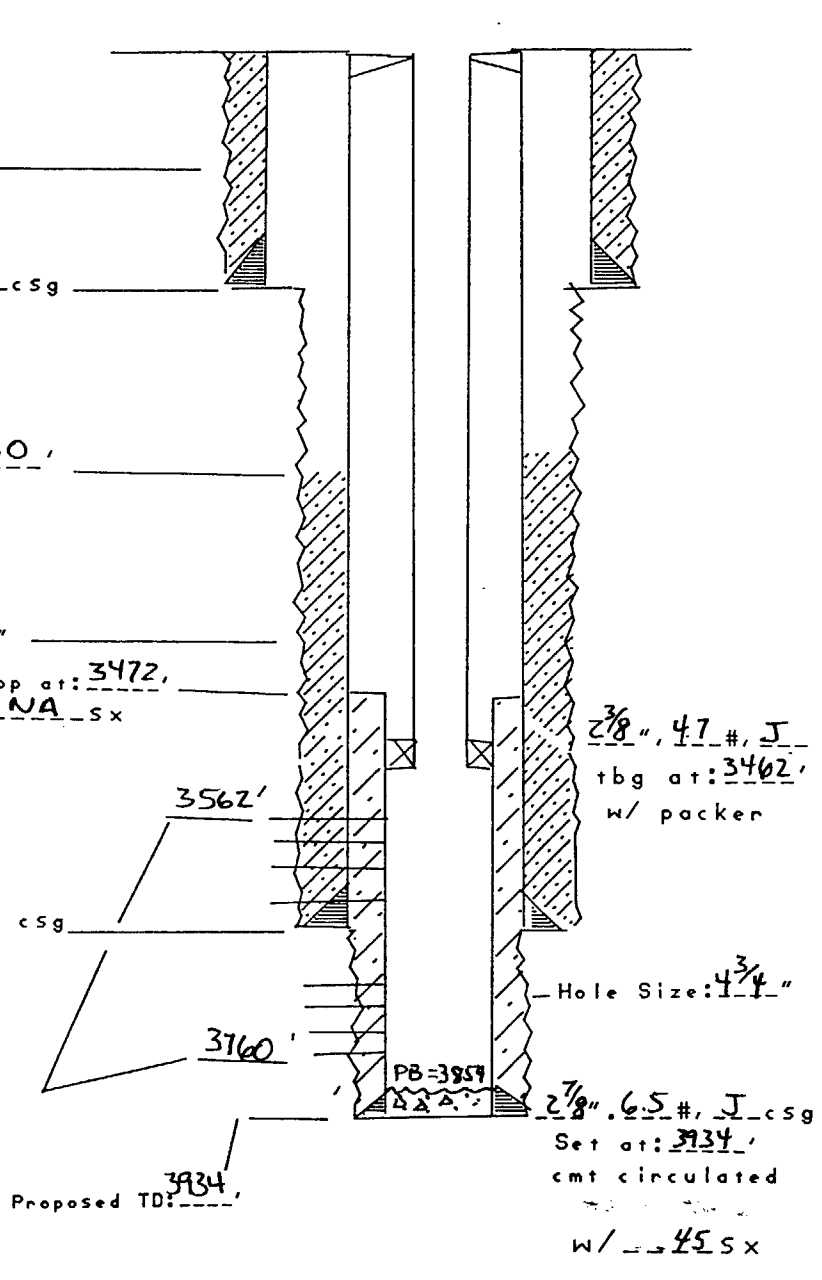
15) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 32

Current Wellbore Diagram



Proposed Wellbore Diagram



12) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

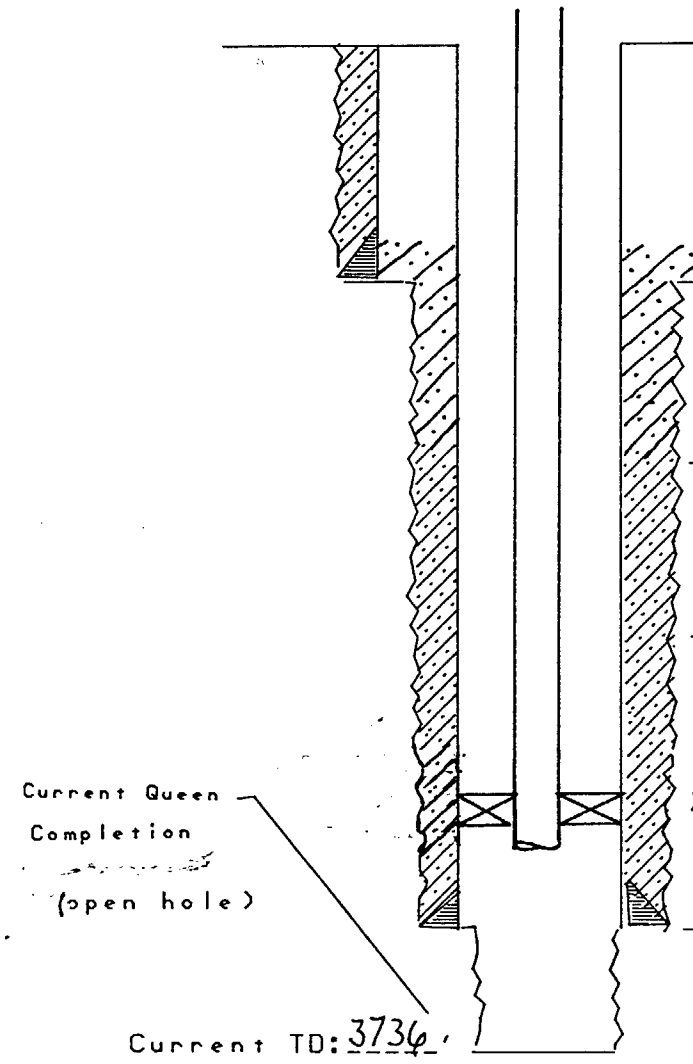
13) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer in liner top. Notify regulatory agency and test backside to 500 psi for 30 minutes.

14) Nipple up Injection head, and place well on injection.

15) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 34

Current Wellbore Diagram



Hole Size: 11"

8 5/8", 24#, K csg
Set at: 1170'
Cmt w/ 750 sx
top of cmt: SURF

Top of cmt: 900'

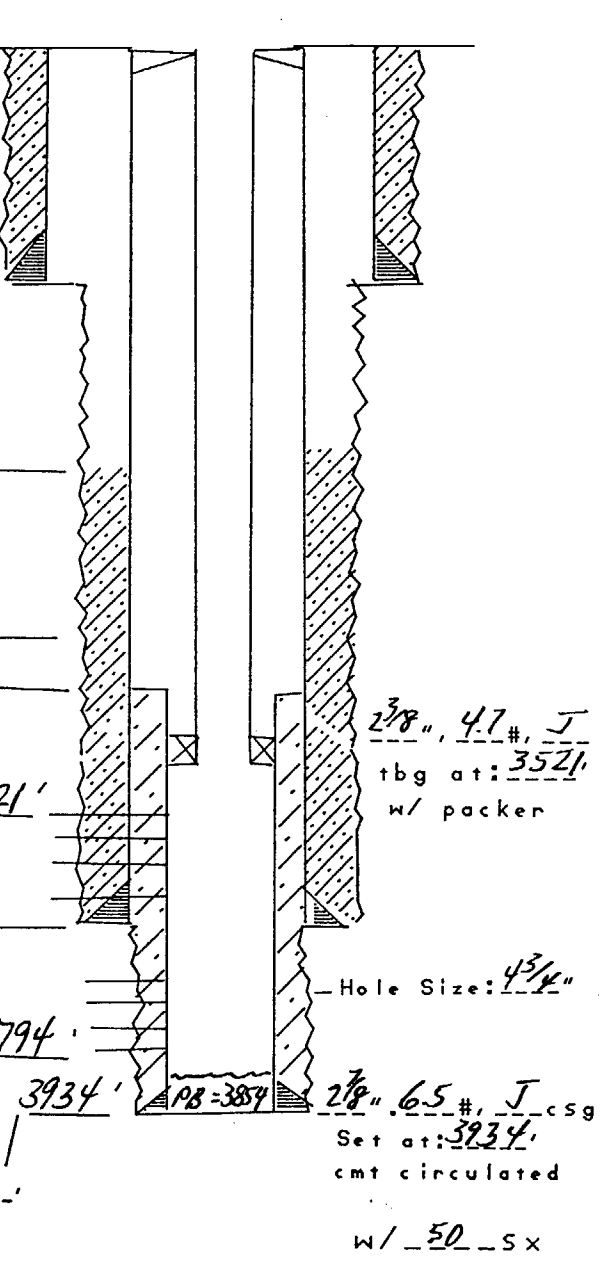
Hole Size: 7 7/8"

Liner top at: 3443'
Sq w/ NA sx

2 3/8" TBG on PKR @ 3492'

5 1/2", 14#, J csg
Set at: 3643'
Cmt w/ 450 sx

Proposed Wellbore Diagram



2 3/8", 4.7#, J
tbg at: 3521'
w/ packer

Hole Size: 4 3/4"

2 7/8", 6.5#, J csg
Set at: 3934'
cmt circulated
w/ 50 sx

West Dollarhide Queen Sand Unit
Well No. 38
Procedure for deepening and Completing as an Injection Well

1) Notify regulatory agency and move in, rig up pulling unit and reverse unit.

2) Pull tubing and packer out of hole.

3) Run in hole with 4-3/4" bit and collars on 2-7/8" workstring.

4) Drill new hole from 3790' to 3970'. circulate hole clean and pull out of hole.

5) Run in hole with 503' of 2-7/8" 6.5# j-55 liner on 2-7/8" workstring. Set liner on bottom and establish circulation.

6) Notify regulatory agency and pump 50 sx class "C" cement.

Annular Space calculation:

Have 303' of 2-7/8" x 4-3/4" (.078 FT3/FT)	=	23.63 FT3
Have 200' of 2-7/8" x 5-1/2" (.0886 FT3/FT)	=	17.72 FT3
Total Annular Space	=	41.35 FT3
Class "C" cement yield is 1.32 FT3 / Sack	=	31.32 SX
Use 50% Excess	=	50 sx

7) Turn off of liner top and reverse tubing clean. Pull out of hole. Wait 48 hrs for cement to harden.

8) After 24 hrs. Rig up wireline and run cement bond log to check for height of cement behind 2-7/8" liner. If Cement top is well into the 5-1/2" casing proceed to Step 9. If Cement top is not into the 5-1/2" casing then continue with this step.

a) Trip in hole with 5-1/2" packer. and set packer 250' above liner top or (3217'). Notify regulatory agency and squeeze liner top with 25 sx of class "C" cement. Leave Packer set over night. Check for flowback. Pull out of hole.

b) Trip in hole with 4-3/4" bit and clean out to liner top. Pull out of hole.

9) Trip in hole with 2-1/4" blade bit and clean out to 3880'. Circlate hole clean and pull out of hole.

10) Rig up wireline and run GR-CNL-CCL from 3880' up to 2000', run GR from 2000' up to surface.

11) Run in hole with perforating guns, and perforate Queen (approx. 3611' to 3789'). Pull out of hole.

12) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

13) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer in liner top. Notify regulatory agency and test backside to 500 psi for 30 minutes.

14) Nipple up Injection head, and place well on injection.

15) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 38

Current Wellbore Diagram

Hole Size: 11"

8 5/8", 32 #, K csg
Set at: 1202'
Cmt w/ 400 sx
top of cmt: SURF

Top of cmt: 2761'

Hole Size: 7 7/8"

Liner top at: 3467'
Sq w/ NA sx

Current Queen
Completion
(open hole)

5 1/2", 14 #, J csg
Set at: 3667'
Cmt w/ 200 sx

Current TD: 3790'

Proposed Wellbore Diagram

3611'

2 3/8", 4.7 #, J
tbg at: 3511'
w/ packer

Hole Size: 4 3/4"

3789'

Proposed Queen
completion
(Perforated)

3970'

PB=3880

2 7/8", 6.5 #, J csg
Set at: 3970'
cmt circulated
w/ 50 sx

Proposed TD: ____'

West Dollarhide Queen Sand Unit
Well No. 39
Procedure for deepening and Completing as an Injection Well

1) Notify regulatory agency and move in, rig up pulling unit and reverse unit.

2) Pull tubing and packer out of hole.

3) Run in hole with 4-3/4" bit and collars on 2-7/8" workstring.

4) Drill 10' cement plug at surface.

5) Drill cement plug from 884' to 1766'.

6) Drill cement from 3514' to 3640' and CIBP at 3640'.

7) Drill new hole from 3815' to 3954'. circulate hole clean and pull out of hole.

8) Run in hole with 474' of 2-7/8" 6.5# j-55 liner on 2-7/8" workstring. Set liner on bottom and establish circulation.

9) Notify regulatory agency and pump 45 sx class "C" cement.

Annular Space calculation:

Have 274' of 2-7/8" x 4-3/4" (.078 FT3/FT)	=	21.37 FT3
Have 200' of 2-7/8" x 5-1/2" (.0886 FT3/FT)	=	17.72 FT3
Total Annular Space	=	39.09 FT3
Class "C" cement yield is 1.32 FT3 / Sack	=	29.61 SX
Use 50% Excess	=	45 sx

10) Turn off of liner top and reverse tubing clean. Pull out of hole. Wait 48 hrs for cement to harden.

11) After 24 hrs. Rig up wireline and run cement bond log to check for height of cement behind 2-7/8" liner. If Cement top is well into the 5-1/2" casing proceed to Step 12. If Cement top is not into the 5-1/2" casing then continue with this step.

a) Trip in hole with 5-1/2" packer. and set packer 250' above liner top or (3230'). Notify regulatory agency and squeeze liner top with 25 sx of class "C" cement. Leave Packer set over night. Check for flowback. Pull out of hole.

b) Trip in hole with 4-3/4" bit and clean out to liner top. Pull out of hole.

12) Trip in hole with 2-1/4" blade bit and clean out to 3874'. Circlate hole clean and pull out of hole.

13) Rig up wireline and run GR-CNL-CCL from 3874' up to 2000', run GR from 2000' up to surface.

14) Run in hole with perforating guns, and perforate Queen (approx. 3611' to 3789'). Pull out of hole.

15) Run in hole with with packer on tbg, and treat Queen with 4000 gals of 15% HCL . Shut in for 30 minutes, and flow back residue. Pull out of hole.

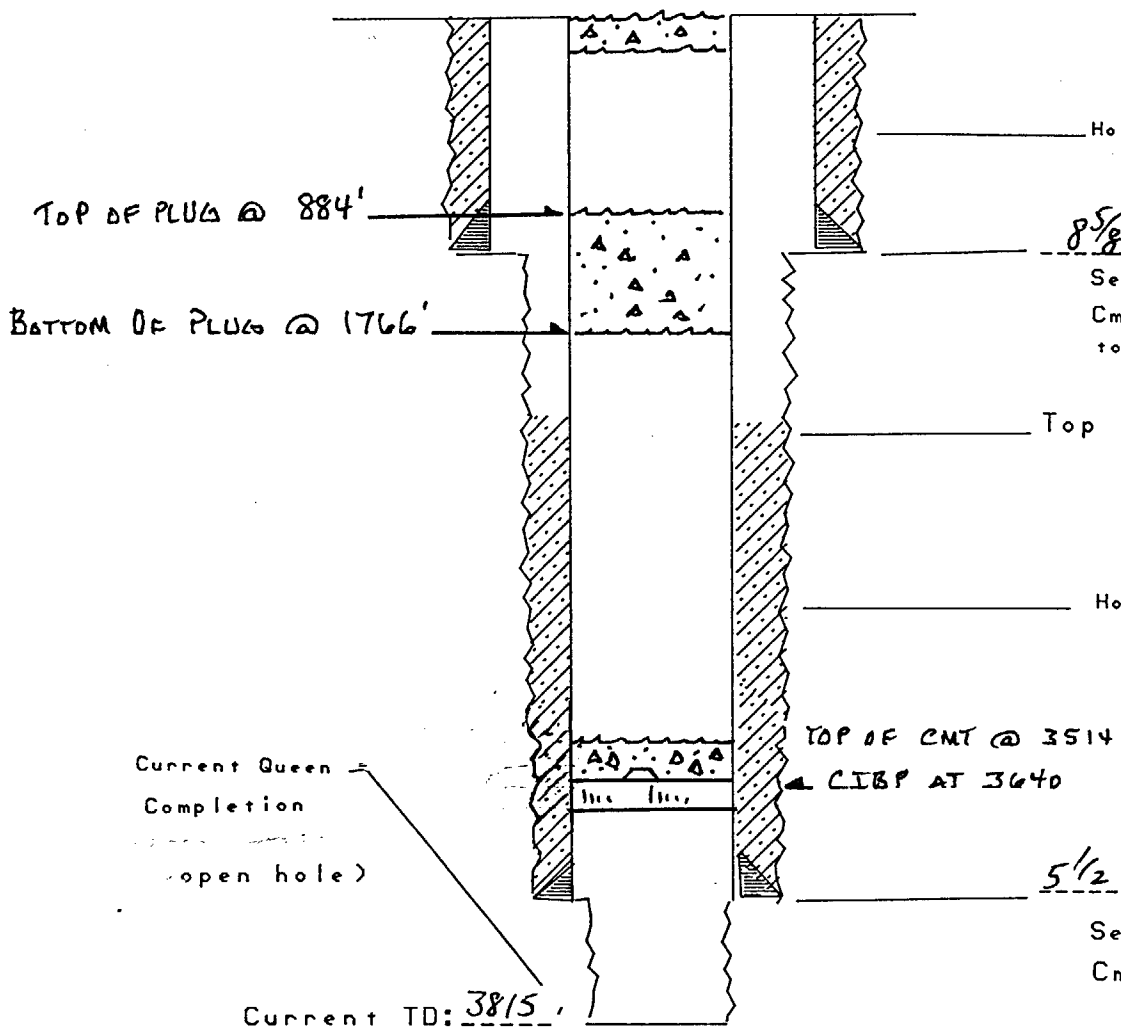
16) Run in hole with packer and 2-3/8" 4.7# J-55 internally plastic coated tubing, set packer in liner top. Notify regulatory agency and test backside to 500 psi for 30 minutes.

17) Nipple up injection head, and place well on injection.

18) File completion report to proper regulatory agency.

Sirgo Operating Inc.
West Dollarhide Queen Sand Unit
Well No.: 39

Current Wellbore Diagram



Proposed Wellbore Diagram