

ENGINEERING & PRODUCTION SERVICE, Inc.

P. O. BOX 190 PH. 325-1924

FARMINGTON, NEW MEXICO 87401

Petroleum Consultants
Sperling # 1-30
Sec. 30-24N-6W
Rio Arriba County, New Mexico

RECEIVED
MAR 11 1975

Cost Estimate - Assuming csg. Leak

Rig Time	\$ 5,300
Squeeze Cementing	1,600
Acidizing	3,700
Packer Rental	2,000
Reverse Equipment and	
Drilg. Tool Rental	1,500
Trucking & Water Hauling	1,500
Engineering	1,700
Set Pumping Unit	1,200
Misc.	<u>1,500</u>
TOTAL:	\$ 20,000

Cost Estimate - No csg. leak

Rig Time	\$ 2,000
Packer Rental	1,000
H ₂ O Hauling	300
Acidizing	3,700
Set Pumping Unit	1,200
Engineering	800
Misc.	<u>1,000</u>
TOTAL:	\$ 10,000

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Well History

Spud 10-27-59
10 3/4" 32.75# H-40 csg. @ 230' w/210 sks. Circ.
T.D. 6530 ft.
7" 23# & 26H csg. @ 6530 ft. & cemented w/300 sks.
Top cement @ 4770 ft.

Perf. Dak. 6430-54 & 6402-08
Frac w/55,000 gal. H₂O & 75,000 # 20-40 sd.
Avg. inj. rate - 50.9 BPM @ avg. press.-3000 psi.

Set Model "D" Prod. Packer on wireline @ 6370 ft.

Perf. Gallup 5448-5480
Frac w/61,530 gals. H₂O & 65,000 # 20-40 & 10,000 #
10-20 sd. Avg. inj. rate 62 BPM @ avg. press. 1800 psi.
90 Ball sealers - 3 stages.

Set ret. BP @ 5430 ft.
Perf. 5280-5316 & 5344-5358
Frac. w/51,660 gals. H₂O & 65,000 # 20-40 sd. & 10,000 #
10-20 sd.
Drop 50 ball sealers two stages. Avg. IR 60 BPM .
Avg. press. 1950

Clean out to top of prod. packer. Ran 205 jts. 2 3/8
4.7# 8 rd. tbg. & sting into packer.
Ran 170 jt. 2 3/8" O.D. 4.7# 8 rd. to 5412 ft. as
Short string.
Well completed - Dec. 5, 1959
Del. Dak. - 123 MCFPD.

Feb. 1963 - Set Otis plug @ 6360 ft. in Dak. prod. string.
Ran string shot & jumped collar @ 6191 ft. Laid down Dakota
Prod. string. Ran Gallup string & returned well to prod.
Dakota Zone Abandoned.

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Well History

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12-12-66: Hot oil & swab well. Return well to production.

5-30-68: Pull tbg. to clean-up paraffin in annulus & tbg. Ran 2 3/8" EUE tbg. w/turned down collars set @ 5505 ft. Anchor catcher 7 jts. off bottom. Run rods & Pump. Return well to production via pump installation. Previously well was producing via piston.

4-25-69: Pump hung. Strip rods & tbg. Reran 172 jts. 2 3/8" tbg. Hot oil tbg. Run rods and new pump. Return well to production.

2-14-70: Unseat pump - hot oil tbg. Change out pump. Return well to production.

Production potential - 4 BOPD & 25 MCFpd.

Well was shut-in and pumping unit moved off supposedly as result of csg. leak. Corky reports that when he treated tank he found no sign of drilling mud which had previously been reported.

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Workover Procedure Required

1. MIRUPU - Pull rods and tbg.
2. Run 7" packer & ret. B.P., test csg. for leak.
Isolate hole to squeeze if warranted.
3. Squeeze hole with 75 sks. Class "A" cement to
1500 psi. Pull packer & ret. B.P.
4. Rig up reverse equipment and drill out cement.
5. Pressure test csg. to 1000 psi. Run packer
& ret. B.P.
6. Treat perfs. 5448-80 with 1000 gal. DAD &
15% HCL.
7. Treat perfs. 5280-5358(oA) with 1000 gal. DAD &
15% HCL.
8. Swab acid load.
9. Pull tbg, packer and ret. B.P.
10. Run tbg., insert pump and rods. Return well
to production.

Jack D. Cook
3-6-75

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Plug & Abandonment Procedure

1. MIRU csg. pulling unit.
2. Run tbg. & spot 50 sk. cement plug on top of Model "D" packer @ 6370 ft.
3. Spot 75 sk. cement plug over Gallup perms. from 5200-5500.
4. Lay down tbg. string.
5. Rig up csg. jacks. Work pipe. Shoot csg. off, based on stretch calculations.
6. Run 2 3/8" tbg. & spot 50 sk. cement plug 50 ft. in and 50 ft. out of csg. stub.
7. Set 15 sk. cement plug in surface.
8. Install dry hole marker. Clean-up location to USGS specifications.

Jack D. Cook
3-6-75