

WELLBORE SCHEMATIC  
of  
PROPOSED RE-ENTRY

C&K PETROLEUM, INC.  
CARLSBAD "7" COM.  
690' FWL & 760' FSL Section 7, 22-S, 27-E  
Eddy County, New Mexico

P&A 3-30-78

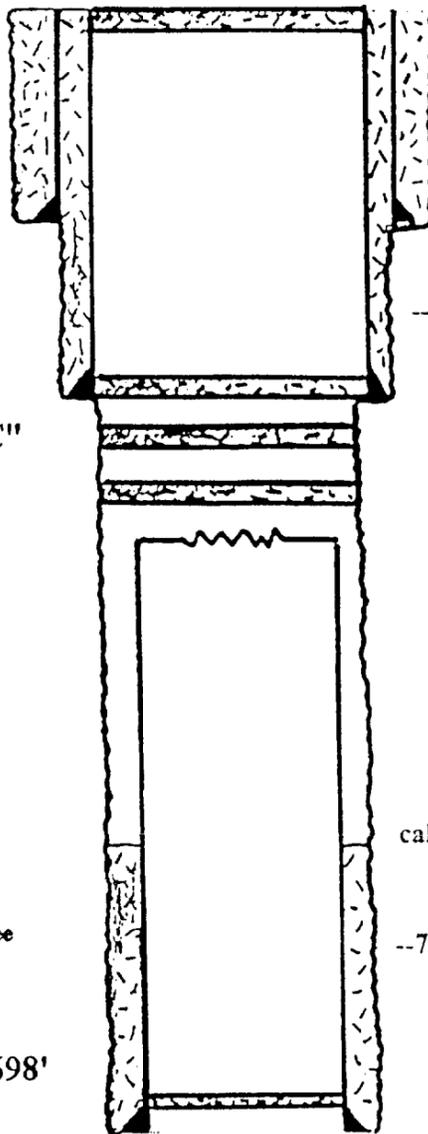
16" 65# @ 400'  
375 sx "C" circ.

10 3/4" 45.5# @ 2,625'  
1225 sx "C" & 350 sx "C"

shot 5 1/2" @ 7620'

shot 5 1/2" @ 10,000' could not free

5 1/2" 17# & 20# @ 11,698'  
515 sx "H"



Spot 10 sx @ surf.

-- 20" hole size

-- 14 3/4" hole size

60 sx @ 2660-2538'

60 sx @ 3606-3509'

60 sx @ 5258-5158'

60 sx @ 6909-6809'

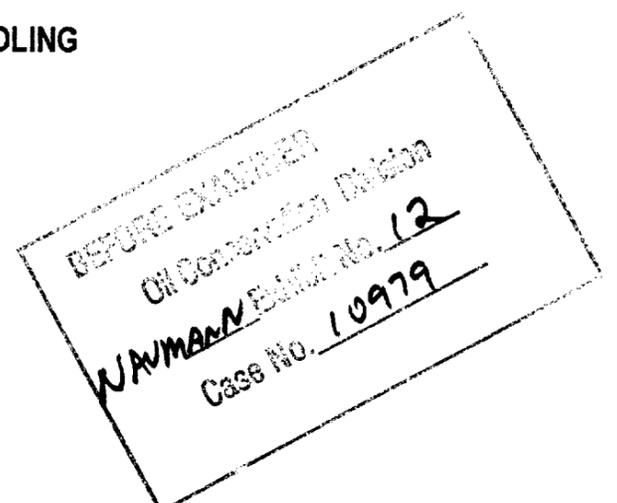
calculated top of cement @ 9,000'

--7 7/8" hole size

35' cmt on CIBP @  
11,075'

NAUMANN OIL AND GAS, INC.

APPLICATION FOR COMPULSORY POOLING  
Section 7, 22-S, 27-E  
EDDY COUNTY, NEW MEXICO



NAUMANN OIL AND GAS, INC.  
 AUTHORITY FOR EXPENDITURE

WELL NAME: City of Carlsbad  
 FIELD: Carlsbad Strawn

COUNTY: Eddy

STATE: New Mexico

DEPTH: 10,600'

DRILLING	INTANGIBLE	TANGIBLE	TOTAL
Move In/ Move Out			
Road, Location, Damages		\$15,000.00	\$15,000.00
Drilling (Footage)		\$59,000.00	\$59,000.00
Drilling (Daywork)		\$5,000.00	\$5,000.00
Bits		\$3,500.00	\$3,500.00
Rig Fuel			
Mud, Chemicals, Water		\$2,500.00	\$2,500.00
Surface Casing			
Intermediate Casing			
Protective Casing			
Cement Services		\$15,000.00	\$15,000.00
Casinghead, valves		\$3,000.00	\$3,000.00
Logging, Coring, DST		\$4,000.00	\$4,000.00
Transportation		\$3,000.00	\$3,000.00
Equipment Rental		\$4,000.00	\$4,000.00
Engineering Services		\$8,000.00	\$8,000.00
Geological Services		\$2,000.00	\$2,000.00
Non-Controllable Serv.		\$3,500.00	\$3,500.00
Misc. Serv., Labor, Ovhd		\$6,000.00	\$6,000.00
Cost to Casing Point			
P&A Cost			
<b>DRY HOLE COST</b>		<b>\$135,500.00</b>	<b>\$135,500.00</b>

COMPLETION	TANGIBLE	INTANGIBLE	TOTAL
Service Rig		\$8,500.00	\$8,500.00
Production casing	\$50,700.00		\$50,700.00
Production Liner			
Cement Services		\$5,000.00	\$5,000.00
Casing Tools			
Perforating, Logging		\$3,500.00	\$3,500.00
Treatment Stimulation		\$40,000.00	\$40,000.00
Mud, Chemicals, Water		\$2,000.00	\$2,000.00
Production Testing			
Wire Line			
Transportation		\$3,000.00	\$3,000.00
Equipment rental		\$3,000.00	\$3,000.00
Wellhead Assembly	\$7,000.00		\$7,000.00
Production Tubing	\$32,000.00		\$32,000.00
Geo/Eng. Services		\$5,000.00	\$5,000.00
Non-Controllable Equip.		\$3,500.00	\$3,500.00
Foundations, Bldg.		\$2,000.00	\$2,000.00
Artificial Lift			
Storage Tanks	\$10,000.00		\$10,000.00
Seperator/Treater	\$5,000.00		\$5,000.00
Line pipe, fittings	\$8,000.00		\$8,000.00
Misc. Services, Labor		\$5,000.00	\$5,000.00
<b>Cost to Complete</b>	<b>\$110,700.00</b>	<b>\$84,000.00</b>	<b>\$194,700.00</b>
<b>GRAND TOTAL COST</b>	<b>\$110,700.00</b>	<b>\$219,500.00</b>	<b>\$330,200.00</b>

NAME: \_\_\_\_\_  
 YOUR COST: \_\_\_\_\_  
 YOUR INTEREST: \_\_\_\_\_  
 TAX I.D.# or S.S.# \_\_\_\_\_

STATE ENGINEER  
 Oil Production Division  
 NAUMANN OIL AND GAS, INC.  
 Case No. 10979

ILLEGIBLE

NAUMANN OIL AND GAS, INC.  
 AUTHORITY FOR EXPENDITURE

WELL NAME: City of Carlsbad  
 FIELD: Carlsbad Strawn

COUNTY: Eddy

STATE: New Mexico

DEPTH: 10,600'

DRILLING	TANGIBLE	INTANGIBLE	TOTAL
Move In/Move Out		\$12,000.00	\$12,000.00
Road, Location, Damages		\$17,500.00	\$17,500.00
Drilling (Footage)		\$202,000.00	\$202,000.00
Drilling (Daywork)		\$15,000.00	\$15,000.00
Bits			
Rig Fuel			
Mud, Chemicals, Water		\$24,000.00	\$24,000.00
Surface Casing	\$6,350.00	\$4,250.00	\$10,600.00
Intermediate Casing	\$32,000.00		\$32,000.00
Protective Casing			
Cement Services		\$14,625.00	\$14,625.00
Galvanhead, valves	\$7,200.00		\$7,200.00
Logging, Coring, DST		\$18,500.00	\$18,500.00
Transportation		\$4,000.00	\$4,000.00
Equipment Rental		\$5,500.00	\$5,500.00
Engineering Services		\$3,000.00	\$3,000.00
Geological Services		\$5,000.00	\$5,000.00
Non-Controllable Serv.		\$10,000.00	\$10,000.00
Misc. Serv., Labor, Ovhd		\$7,500.00	\$7,500.00
Cost to Casing Point	\$46,350.00	\$343,875.00	\$390,225.00
P&A Cost		\$18,500.00	\$18,500.00
<b>DRY HOLE COST</b>	<b>\$46,350.00</b>	<b>\$360,375.00</b>	<b>\$406,725.00</b>

COMPLETION	TANGIBLE	INTANGIBLE	TOTAL
Service Rig		\$10,500.00	\$10,500.00
Production casing	\$77,250.00		\$77,250.00
Production Liner			
Cement Services		\$9,000.00	\$9,000.00
Casing Tools		\$4,000.00	\$4,000.00
Perforating, Logging		\$8,500.00	\$8,500.00
Treatment Stimulation		\$42,000.00	\$42,000.00
Mud, Chemicals, Water		\$6,000.00	\$6,000.00
Production Testing		\$4,250.00	\$4,250.00
Wire Line			
Transportation		\$2,500.00	\$2,500.00
Equipment rental		\$4,000.00	\$4,000.00
Wellhead Assembly	\$3,000.00		\$3,000.00
Production Tubing	\$27,000.00		\$27,000.00
GeolEng. Services		\$8,000.00	\$8,000.00
Non-Controllable Equip.		\$3,500.00	\$3,500.00
Foundations, Bldg.			
Artificial Lift			
Storage Tanks	\$5,000.00		\$5,000.00
Separator/Treater	\$10,500.00		\$10,500.00
Line pipe, fittings	\$2,500.00		\$2,500.00
Misc. Services, Labor		\$7,000.00	\$7,000.00
Cost to Complete	\$125,250.00	\$107,250.00	\$232,500.00
<b>GRAND TOTAL COST</b>	<b>\$171,600.00</b>	<b>\$467,625.00</b>	<b>\$639,225.00</b>

NAME: \_\_\_\_\_  
 YOUR COST: \_\_\_\_\_  
 YOUR INTEREST: \_\_\_\_\_  
 TAX I.D.# or S.S.# \_\_\_\_\_

AUTHORITY FOR EXPENDITURE  
 Oil Conservation Division  
 NAUMANN Exhibit No. 14  
 Case No. 10979