N. MEX. OIL CONS. COMMISSION
P. O. BOX 1980
HOBBS, NEW MEXICO 88240

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: NM-40624

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER

8. FARM OR LEASE NAME: Option Federal

2. NAME OF OPERATOR: The Maurice L. Brown Company

9. WELL NO.: 5

3. ADDRESS OF OPERATOR: Suite 200/Sutton Place Bldg. Wichita, Kansas 67202

10. FIELD AND POOL, OR WILDCAT: Vada Penn

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface:
660' FWL & 1980' FSL, Sec. 35, T-8-S, R-35-E
Roosevelt County, New Mexico.

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 35, T-8-S, R-35-E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4156' GL & 4177' KB

12. COUNTY OR PARISH: Roosevelt

13. STATE: N.M.

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other) Repair Casing Leak			[X]	(Other) Repair Casing Leak			[X]

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

"See Attached"

BUREAU OF LAND MANAGEMENT
ROSWELL RESOURCE AREA
ROSWELL, NEW MEXICO
RECEIVED
AUG 29 1986

18. I hereby certify that the foregoing is true and correct

SIGNED Wm. Groesbeck TITLE District Engineer DATE 8-28-86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD
PETER W. CHESTER
SEP 3 1986
BUREAU OF LAND MANAGEMENT
ROSWELL RESOURCE AREA

*See Instructions on Reverse Side

Option No. 5
Fish Rods and Repair Casing

7-25-86
Moved in and rigged up PBCP Service, Inc. at 9:30 A.M. Pulled out of hole with rods to part. Had 3/4" body break on 192nd rod from surface. Ran fishing tool. Latched onto rods. Checked pump action. Had good pump action. Unseated pump. Pulled 60 rods and started having drag. Pulled 15 additional rods to approximately 1875' off bottom or 7925'+- depth. Pulled 10,000# above rod weight. Pumped 40 BFW at 200 degrees F down 5 1/2" casing in 30 minutes. No help. Pumped 20 BFW at 200 degrees F down tubing. No help. Not getting pump stroke. Pumped 60 additional BFW at 210 degrees F down tubing. Tubing did not load. Worked tubing from 26,000# to zero while pumping last 30 barrels of water. No change. Rigged up hot oil unit. Sat rods down. Torqued rods to right. Picked up to 10,000#. Torqued rods to right. Started pulling on rods to set rods in tight spot. Pulled to 35,000# and rods parted. Had 6 points weight. Ran 9 rods in hole without touching anything. Pulled out of hole with 117 rods. (Total of 192 rods pulled from well). Top of fish at 4800'. Rods parted in 2' x 3/4" pony rod above fishing tool. Latched onto tubing. Pulled to 90,000#. Attempted to release from on-off tool. No success. Took stretch measurement from 70,000# to 90,000#. Had 24" stretch indicating 5600' stuck point. Shut down for night at 8:00 P.M. Will run fishing tool for rods in A.M.
Daily cost $1500.
Cum. cost $1500.

7-26-86
Pumped 1000 gallons 7 1/2% HCl down casing. Got 41" stretch with 20,000# above tubing weight after pumping all acid. Continued working tubing and attempting to release on-off tool. Casing loaded after pumping 110 barrels fluid. (24 barrels of acid and 86 BFW with 2% KCL). No success in releasing from on-off tool or releasing anchor-catcher in 3 hours. Ran fishing tool with slips to catch 5/8" to 3/4" rod body. Latched onto fish at approximately 4800' depth (within one rod lenght of original depth of rod fish). Got hold of fish and pulled 4 points weight. Believe to have stripped off top of fish. Could not get another hold. Pulled out of hole while locating additional tools from Obannon and Star Tool, etc. Completed pulling out of hole with rods. Recovered both rod fishing tools plus broken rod below bottom fishing tool and 44-3/4" cork screwed rods below bottom fishing tool. Had pin on bottom of bottom rod with stripped thread. Ran box socket. Laid down all rods (44-3/4") below fishing tool on account of all these rods were corkscrewed. Went in hole with 2 1/2" x 1 5/8" box socket on rod string to catch 3/4" box. Picked up 35-7/8" rods from yard to replace 3/4" crooked rods laid down. (Top of fish at 5900' +-). Latched onto rod fish at approximately 5900'. Pulled 8 rods (200') off bottom with full rod string weight of 18,000#. Had no drag—pulling smoothly. Shut down for night at 6:00 P.M.
Daily cost $2500.
Cum. cost $4000.

Option No. 5 (cont.)

7-27-86
Shut down for Sunday.

7-28-86
Pulled 67 additional rods spacing pump 75 rods off bottom. Had approximately 8 points drag every 25' for approximately 3' length. Believe to have spiral guide in tight spot in tubing. Loaded casing with 45 BFW with 2% KCL. Pumped 95 BFW with 2% KCL down tubing. Tubing did not load. Got second load of water. Pumped additional 105 BFW with 2% KCL down tubing and tubing loaded. Total of 200 barrels down tubing to load. Tubing on slight vacuum. Reloaded casing with 5 barrels (total of 50 barrels down 5 1/2" casing today). Tied back rods in derrick. Pulled 35,000# to set spiral guides in tight spot. Set 14 points weight on string (2 points above rod string weight). Installed back off tool on rods. Backed off rods. Had 12,000# weight (same as original weight) after backing off. Pulled 1/2 rod length and turned rods to right to make up any loose rods in string. Pulled out of hole with rods. Laid down box socket. Recovered 8 of 15-1" rods from above pump. The 1" boxes had small scars from pulling through tight tubing. Remaining in hole are 7-1" rods, 1-1" x 2' pony rod, 1 1/2" x 22' polished rod with 2 1/2" spiral guides on top and bottom and 2 1/2" x 2' x 1 1/4" x 22' RHBM pump. Had 1" box on bottom of re-covered rods — threads are O.K. inside box. Had no loose rods in string but tightened all breaks below box socket while pulling out of hole. Took stretch measurements of tubing from 70,000# to 90,000#. Had 41" stretch indicating stuck point at 9200' depth. Attempted to release from on-off tool. No success. Ran 1 1/2" OD x 22' polished rod with 1 3/8" OD pin on bottom, 8-1" x 25' sucker rods, 3/4" rod jars and balance of rod string. Tagged up on fish. Pumped 140 barrels of fresh water with 2% KCL down tubing. Tubing did not load. Bumped fish loose in 5 minutes. Chased fish down hole with approximately 25 rods without encountering fish. Top of rod fish should be at approximately 9575'. Pulled out of hole with rods and 1 1/2" polished rod on bottom. No significant marks on bottom of polished rod pin. Shut down for night at 7:30 P.M.
Daily cost $1500.
Cum. cost $5500.

7-29-86
Rigged up McCullough at 7:30 A.M. Zeroed counter at 21AGL. Ran 1 7/16" OD free point tools. Tagged up on rod fish at 9570' depth. Found tubing free above collar at 7770' depth, 20% free at 7774' and stuck at 7785'. Pulled out of hole with free point tool. Ran 2 1/8" OD gauge ring. Sat down at 7776'. Loaded tubing with 30 BFW. Ran 1 13/16" OD jet cutter. Sat down in mashed tubing at 7179'. Pulled out of hole with jet cutter. Pumped 110 BFW down casing. Casing did not load. Released KTS transport. Picked up Star Tool's 2 3/16" OD tubing swedge, bumper sub, hydraulic jars, 1-1 1/2" x 22' polished rod, 1-1" x 2' pony rod and ran in hole on 8-1" x 25' sucker rods, 144-3/4" x 25' sucker rods and 157-7/8" x 25' sucker rods. Tagged up at 7777' KB measurement at 1:30 P.M. (Have 75 triples in derrick plus 2 rods in elevators above rod plate). Started swedging at 1:35 P.M. Made 2'

Option No. 5 (cont.)

7-29-86 (cont.)
progress in next hour and a half. Pulled out of hole with rods and swedge. Swedge worn on opposite sides for approximately 3" of length. Ran 1 13/16" OD jet cutter. Had some collar locator noise going through tight tubing at 7776' to approximately 7782'. Spaced tool at 7828½' to make jet cut 1 1/2' above collar at 7830'. Could not detect cutter firing but picked up additional collar locator noise where cutter was spaced. Pulled out of hole with jet cutter. Cutter showed to have fired. Had 3500' fluid level when pulling tools out of hole. No detectable vacuum on tubing. Started working tubing at 5:10 P.M. Working from 50,000# to 80,000#. Took stretch measurement from 70,000# to 90,000#. Had 41" stretch. No change with 30 minutes of working. Made up second 1 13/16" OD jet cutter and ran in hole. Made shot at 7829' (6" below previous shot and 1' above collar at 7830'). Felt this shot on line and in truck and tubing went on vacuum. Pulled out of hole with jet cutter. Worked tubing with no success for 30 minutes. Pulled to 90,000# and set slips. Shut down for night at 7:00 P.M.
Daily cost $6500.
Cum. cost $12,000.

7-30-86
Worked tubing for 30 minutes. No change from yeaterday. Ran one single 6' length of 80 grain per foot string shot and 1 3/8" OD collar locator on McCullough electric line. Checked cut at 7829' depth. Could not detect any separation of tubing. Spaced string shot across tubing collar at 7741' depth. Pumped 100 barrels of fresh water with 2% KCL down tubing. Torqued tubing to right with 8 rounds torque. Torqued tubing with 5 rounds left hand torque. Attempted shot. Could not detect shot having gone off. Did not lose any torque. Pulled out of hole with string shot. Sent transport in to reload. String shot had fired. Made up second shot with 2-6' lengths of 80 grain per foot and ran in hole. Spaced string shot across collar at 7741'. Re-torqued tubing. Pumped 80 barrels of fresh water with 2% KCL down tubing. Fired string shot number 2. Lost all torque. Completed backing off tubing. Had 50,000# weight remaining. Raised tubing 6'. Could not re-enter tubing at 7741' with shot rod. Collar originally at 7711'depth was found to be six foot higher. Pulled out of hole with collar locator and shot rod. Rigged down and released McCullough. Pumped 70 barrels of fresh water with 2% KCL down casing and released transport. Pulled out of hole with 256 joints of 2 7/8" tubing plus 3-4' tubing subs. Total tally of 7722.23'. Had pin on bottom. (Left collar looking up on bottom). Picked up Star Tool's screw in sub, bumper sub, jars and 4-3 1/2" OD drill collars. Tally of tools = 135.80'. Completed picking up tools at 3:00 P.M. Shut down for rig repairs at 3:00 P.M. Will run tubing in A.M.
Daily cost $3300.
Cum. cost $15,300.

Option No. 5 (cont.)

7-31-86
Tripped in hole with Star Tool's tools on 252 joints of 2 7/8" tubing (7589.32') plus 135.80' of tools = 7725.12' plus 18' below KB = 7743.12' KB depth. Screwed into tubing collar. This collar at 7741' by McCullough measurement. Started jarring on tubing to 80,000# (30,000# above tubing weight) at 9:15 A.M. Pumped 100 BFW with 2% KCL and 2 giant size boxes of Tide down casing starting at 3:45 P.M. No movement in tubing to this time. Pulled approximately 35 barrels of oil from lease storage and pumped down casing for lubrication. Released KTS transport at 4:20 P.M. Did not make any progress during day. Jarring and bumping on fish on an average of 3 to 4 times per minute. Shut down for night at 7:00 P.M.
Daily cost $3200.
Cum. cost $18,500.

8-1-86
Continued jarring and bumping on tubing for 2 hours ending at 9:30 A.M. Shut down at 9:30 A.M. to save jars until we could get McCullough on location and make a string shot inside tubing in collapsed area. Rigged up McCullough at 12:00 noon. Ran 6' of 200 grain per foot string shot on electric line. Spaced top of shot at 7776' (6' below collar at 7770'). Pulled to 90,000# on tubing. Pumped 50 barrels of fresh water with 2% KCl down tubing. Discharged string shot (7776' to 7782'). Did not loose any weight. Pulled out of hole with collar locator and shot rod. Mixed 2 giant size boxes of Tide in remaining 100 barrels of water and pumped down 5 1/2" casing. Started jarring and bumping on tubing while pumping soapy water at 1:45 P.M. No progress in 45 minutes of jarring. Made manual back off. Had correct weight after back off. Pulled out of hole with tubing, left bottom 21" of hydraulic jars, bumper sub and screw in sub in hole. Hydraulic jars backed off in tool joint -- no breakage. Shut down for night at 5:00 P.M.
Daily cost $5000.
Cum. cost $23,500.

8-2-86
Picked up 4 11/16" OD overshot with grapple to catch 3 3/4" body of hydraulic jars. Ran in hole on 256 joints of 2 7/8" tubing plus subs. Latched onto bottom part of hydraulic jars. Torqued tubing to right, sufficient enough to hold 3 1/2 rounds of left hand torque. Ran McCullough string shot with 160 grains per foot shot. Checked collars at 7741' and 7770'. Spaced shot across collar at 7770'. Pumped 50 barrels of fresh water with 2% KCl. Fired shot. Did not loose any torque. Pulled out of hole with collar locator and shot rod. Made second string shot with 180 grains per foot in collar at 7741' (immediately below tools). Broke in coarse thread at top of screw-in sub. Pulled out of hole with shot rod. Made up tubing and made up third string shot using 200 grain per foot. Spaced shot across collar at 7770'. Torqued tubing to right to hold 8 rounds right hand torque. Torqued to left 4 1/2 rounds. Pumped 50 barrels of fresh water with 2% KCl down tubing. Fired shot. Lost torque. Completed backing off at 7770'. (All advisors

Option No. 5 (cont.)

8-2-86 (cont.)
on location — Star Tool's fisherman and McCullough operators said this could not be done — that this collar was stuck). Pulled out of hole with tubing. Laid down overshot, bottom part of hydraulic jars, bumper sub, screw in sub (all of Star Tool's tools) and one joint of 2 7/8" tubing. Had pin thread on bottom, leaving collar looking up at 7770' depth. Bottom joint was crooked but not spiraled. Went in hole with tubing. Picked up joint to replace bottom crooked joint. Screwed into collar at 7770' depth and torqued to 8 rounds. McCullough made up 2 1/4" OD jet cutter and ran in hole. Spaced cutter at 7777' (7' below collar at 7770'). Pumped 40 BFW with 2% KCl and fired shot. Had to pull 20 points above tubing weight to pull free. Checked cut with McCullough. Believe to have cut 7' below collar at 7770' depth. Pulled out of hole with jet cutter. Rigged down and released McCullough. Released transport truck. Shut down for night at 7:30 P.M.
Daily cost $5300.
Cum. cost $28,800.

8-3-86
Shut down for Sunday.

8-4-86
Pulled out of hole with tubing. Laid down bottom cut piece of tubing measuring 7.08' in length with 4" OD flare on bottom where jet shot was made. Picked up 4 1/8" rough OD concave mill, crossover sub, short 3 1/2" OD drill collar (9.75'), 4 3/4" blade stabilizer, 1-3 1/2" OD drill collar (30.30'), 4 3/4" blade stablizer, 3-3 1/2" OD collars (91.03') and cross-over sub. Total tools = 138.20'. Tripped in hole on 253 joints of 2 7/8" tubing (7619.43'). Tagged up with 9.06' in on next joint. Total tally to tag-up point is 7766.69' plus 19' below KB = 7785.69' KB depth. Picked up tag-up joint and power swivel. Started water down casing and started milling at 11:30 A.M. Taking torque one foot above tag-up point. Took 40 minutes to make one foot to original tag-up point. Took 1 hour and 40 minutes to make next foot to 7786.69' KB depth. Made one additional foot to 7787' in next three hours ending at 5:00 P.M. (Made total of 3' in 5 1/2 hours). Laid down power swivel and pulled out of hole. Mill worn slick on bottom outer edge and worn to 3 7/8" OD on full outer surface. No wear on bottom surface. Picked up new mill and ran in hole on one drill collar. Shut down for night at 7:00 P.M.,
Daily cost $3000.
Cum. cost $31,800.

8-5-86
Completed tripping in hole with new 4 1/8" OD mill No. 2. Started dressing casing 6" below point where we started milling yeaterday at 9:30 A.M. Dressed casing to 7787.69' in 45 minutes ending at 10:15 A.M. and started

Option No. 5 (cont.)

8-5-85 (cont.)
making new hole. Carrying approximately 2 points weight on mill. Made total of 5' of new progress to 7792.69' KB in 6 hours. No torque at end of milling at 4:15 P.M. Laid down swivel and pulled out of hole with tubing and mill. Mill worn on bottom outer edge, rounded and worn to 3 7/8" OD as on mill No. 1. Had pigtail wear in center but no indication of cutting on tubing body. Mill and sub above was plugged with iron cuttings and had a few chips of cement. Picked up 4 1/8" OD mill No. 3 and ran in hole on drill collars. Added bumper sub at bottom to add 4.20' below bottom stabilizer. Shut down for night at 7:00 P.M.
Daily cost $2600.
Cum. cost $34,400.

8-6-86
Completed tripping in hole with mill No. 3. Started dressing casing 2' higher than initial point with mill No. 1 at 9:30 A.M. Dressed casing to 7792' in 1 1/4 hours. Started making new progress at 10:45 A.M. Made one foot new progress to 7793' in 45 minutes. Took 5 hours making next foot to 7794'. Would loose hole each time the mill stuck and was lifted off bottom to get free. Had to re-mill 2' to get to bottom several times, taking an hour or more each time. Quit milling at 4:30 P.M. Laid down power swivel and pulled out of hole. Mill No. 3 rounded on outer bottom edge and had a 3/4" diameter x 1/2" deep hole in center on bottom. Small amount of wear across bottom. Mill full gauge. Shut down for night at 6:30 P.M.
Daily cost $2500.
Cum. cost $36,900.

8-7-86
Picked up 4 1/8" mill No. 4 and tripped in hole. Dressed casing for 15 minutes getting to depth reached on 8-6-86 (7794'). Started making new progress at 9:45 A.M. Progress was as follows:

	TIME PERIOD	HOURS	FOOTAGE	DEPTH - KB	
1	9:45 A - 10:45 A	1 - 0	1	7795'	Milling
2	10:45 A - 12:15 P	1 - 30	1	7796'	Milling
3	12:15 P - 1:00 P	0 - 45	0	7796'	Dressing
4	1:00 P - 1:50 P	0 - 50	1	7797'	Milling
5	1:50 P - 2:40 P	0 - 50	1	7798'	Milling
6	2:40 P - 3:25 P	0 - 45	1	7799'	Milling
7	3:25 P - 4:05 P	0 - 40	1	7800'	Milling

Quit attempting to make progress at 4:05 P.M. on account of having made 16' of total progress and having only 16.59' of space between bottom of mill and bottom of bottom stabilizer. Milled off weight for 15 minutes.

Option No. 5 (cont.)

8-7-86 (cont.)
Quit rotating at 4:20 P.M. Laid down power swivel and pulled out of hole. Mill No. 4 was worn across entire bottom with major wear on outer edge as on all previous mills. Picked up 3 7/8" OD lead impression block and made up on bottom of 1 stand of tubing and ran in hole on sand line. Pulled out of hole with impression block. Had clear and clean imprint of 1/2" circle of tubing. Shut down for night at 7:00 P.M.
Daily cost $2700.
Cum. cost $39,600.

8-8-86
Picked up 3 7/8" OD overshot with cut lip guide and installed bumper sub above overshot. Ran in hole on 4 - 3 1/2" OD drill collars and 254 joints of 2 7/8" tubing. Tagged up on top of fish. Worked 45 minutes attempting to get a hold but could not rotate. Did not pick up any additional weight. Pulled out of hole with overshot. No recovery. Had several unidentifiable marks on bottom edge of cut lip guide. Picked up 4 1/8" OD mill No. 5 and tripped in hole on 1 - 3 1/2" OD drill collar, 1 - 4 3/4" OD stabilizer, 3 - 3 1/2" OD drill collars and 2 7/8" tubing. Started dressing casing at 7795' depth at 2:30 P.M. Dressed 5' of casing to 7800' in 1 hour and 45 minutes. Made 2' new progress to 7802' in 2 hours. Dressed casing again in interval 7796' - 7797'. Pulled swivel into derrick getting mill approximately 30' off bottom and shut down for night at 7:00 P.M.
Daily cost $3100.
Cum. cost $42,700.

8-9-86
Lowered mill back through bad casing to top of tubing at 7802'. Had flicker on weight indicator at very top of area milled at 7784' depth and again at 7797'. Pulled out of hole with mill No. 5. Mill, sub and bottom drill collar was plugged with mill cuttings. (All steel--no formation or cement). Bottom 100 joints of tubing filled with black water. Mill worn to 4" OD but with most wear on bottom surface. Had pigtail wear in center of mill. Picked up 3 7/8" OD lead impression block. Made up on bottom of one stand of tubing and ran in hole on sand line. Had some imprint as on previous lead block. Picked up 3 7/8" OD overshot with grapple for 2 7/8" tubing body. Installed on bottom of one joint of 2 7/8" tubing, bumper sub and 4 - 3 1/2" OD drill collars. Ran in hole on 2 7/8" tubing. Tagged top of fish. Worked 1 1/4 hours at top of fish attempting to get hold of fish. Got hold at 2:45 P.M. and pulled to 60,000#. Released from on-off tool. Pulled approximately 10' off bottom--pulling at 60,000# and lost hold with overshot or pulled tubing apart where jet cut had been made at 7829'. Pulled half way out of hole. Hydraulic pump on rig tore up. Shut down for night at 4:30 P.M. for rig repairs.
Daily cost $1800.
Cum. cost $44,500.

8-10-86
PBCP installed new hydraulic pump on rig.

Option No. 5 (cont.)

8-11-86
Rig crew started up unit but transmission was locked — probably from broken pieces of hydraulic pump in transmission gears. Shut down for rig repairs at 7:30 A.M. Had mechanics working at 9:30 A.M. Found gears broken in transmission requiring that transmission be pulled and repaired. Shut down for day at 11:00 A.M. to complete rig repairs.

8-12-86
Completed rig repairs at 11:45 A.M. Completed pulling out of hole with overshot. No recovery. Grapple broken and worn dull from rotating over fish. Fish had been above top of grapple. Installed new grapple in overshot and tripped in hole. Latched onto tubing fish at 3:00 P.M. Pulled up hole at 62,000#. Ran back to bottom and went through motions of releasing from on-off tool. Pulled 12' off bottom and anchor-catcher seemed to be catching. Pulled to 70,000#. Went back to bottom and made second attempt to release from on-off tool. Pulled past other points where we were picking up drag without encountering drag. Believe to have released from on-off tool. Did not have any drag when on-off tool was pulled through the bad spot in casing. Pulled to top of rods. Laid down 7 - 1" rods (5 were crooked), polished rod with spiral guides and with safety joint and 1 - 1" x 2' pony rod on top and pump. Pump appeared O.K. except for fish neck on top which was collapsed down and compressed against pull rod. Laid down top half of on-off tool which appeared O.K. but was full of material. Shut down for night at 8:00 P.M.
Daily cost $1800.
Cum. cost $46,300.

8-13-86
Picked up 4 3/8" OD bottom hole swedge, 1-3 1/2" OD drill collar, 4 11/16" OD string swedge, bumper sub, jars and 3-3 1/2" OD drill collars, 1-3 1/2" OD short drill collar and tripped in hole on 2 7/8" tubing. Tagged up at approximately 7784' KB depth (using average joint length on tubing). Bumped bottom swedge through 10' of tight casing in 45 minutes. Started bumping 4 11/16" OD swedge through tight casing at 12:30 P.M. Went through with 4 11/16" string in 1 1/2 hours working at 2:00 P.M. Worked string swedge through bad casing for 30 minutes with no additional improvement. Had 8 to 10 points drag at end of working. Pulled out of hole with swedges. Laid down swedges, bumper sub and jars. Stood collars back in derrick. Picked up 5 1/2" Baker anchor-catcher with bull blug on bottom and 4 1/2" (3 1/4" OD) Baker on-off tool, 2 7/8" x 6' tubing sub, 2 7/8" x 3' perforated tubing sub, 2 7/8" x 2 1/4" ID seating nipple and 6 joints of 2 7/8" tubing. Shut down for night at 7:00 P.M.
Daily cost $5100.
Cum. cost $ 51,400.

Option No. 5 (cont.)

8-14-86
Completed running tubing in hole. Did not feel anything when anchor-catcher went through the tight spot in casing. Laid down drill collars. Installed tubing as follows:

2 7/8" OD 8RT cow plug	0.37'
5 1/2" Baker anchor-catcher with 35,000# shear	2.80'
4 1/2" Baker on-off tool with crossover to 2 7/8" on top	2.94'
2 7/8" OD, N-80, EUE, 8RT tubing sub	6.10'
2 7/8" OD, J-55, EUE, 8RT perforated tubing sub	3.24'
2 7/8" OD x 2 1/4" ID seating nipple	1.10'
324 joints 2 7/8" OD, 6.50#, N-80, EUE, 8RT tubing	9760.80'
No subs	
Total tally	9777.35'
Below KB	21.00'
Spaced off bottom	2.20'
Tubing stretch-14,000# ten.	3.00'
Present depth	9803.55'

Recorded PBD: 9829'
Depth from original installation on 6-26-85: 9814'
5 1/2" csg. perfs: 9767' - 9780'

Landed tubing on flange with 14,000# tension on anchor-catcher. Released Star Tool. Ran swab in tubing to seating nipple. Had no recovery. Did not feel a fluid top while going in hole. Swab line and swab were dry. Ordered acid and 2% KCl water for displacement. Pumped 1500 gallons of 15% NE FE with 8 gallons Silica suspending agent down tubing. Shut down for 20 minutes. Pumped 250 BFW with 2% KCl down tubing and casing simutaniously at 5 BPM rate down casing and 2 BPM rate down tubing to maintain equal hydrostatic pressure at all times on tubing and casing. Used 250 barrels total displacement volume with 78 barrels down tubing and 178 barrels down casing. Total displacement volume is 45 barrels overdisplacement of tubing and casing combined. Displacement completed at 4:00 P.M. Well on strong vacuum on tubing and casing. Rigged down Charger, Inc. Picked up pump with pump seat, 3 cup hold down and 1 1/2" x 6' gas anchor on bottom and started in hole. Installed pump and rods as follows:

1 - 2 7/8" x 2 1/2" x 1 1/4" x 22' RHBM pump
1 - 1 1/2" x 22' polished rod with 2 1/2" spiral guides top and bottom
1 - left hand thread safety joint
1 - 1" x 2' pony rod
15 - 1" x 25' sucker rods
190 - 3/4" x 25' sucker rods
135 - 7/8" x 25' sucker rods
47 - 1" x 25' sucker rods
1 - 1" x 6' pony rod
1 - 1" x 4' pony rod
1 - 1" x 2' pony rod
1 - 1 1/2" x 22' polished rod

Option No. 5 (cont.)

8-14-86 (cont.)
Hung well on beam at 8:00 P.M. Left operating at 8 SPM in 86" stroke position. Left casing venting at well head. Will start compressor in A.M. and rig down if all O.K. Shut down for night at 8:30 P.M.
Daily cost $4000.
Cum. cost $57,200.

8-15-86
Well DOA. Ran out of propane. Rigged down PBCP Services, Inc. at 8:30 P.M.
Daily cost $300.
Total cost $57,500.

FINAL REPORT