

CONFIDENTIAL

Release Date 3-16-88

COUNTY Yuma AREA Yuma LEASE NO. A-16837

WELL NAME Petroleum Technical Services Co. No. 4-1 Federal

LOCATION Ctr. of Sec. SEC 4 TWP 11S RANGE 24W FOOTAGE 2104' FSL & 2433' FEL
 STATUS Dry Hole TOTAL
 ELEV 154.8' GR KB SPUD DATE 08-17-87 COMP. DATE 9/14/87 DEPTH 7,000'

CONTRACTOR

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
				DRILLED BY CABLE TOOL
				PRODUCTIVE RESERVOIR
				INITIAL PRODUCTION

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Colo. River Gravels	Surface	-	-	Gravels w/coarse sands, clays, quartz particles.
Transition Zone	3,100'			Coarse sand interbedded w/siltstones & fine grain sands, clays, some calcareous cement. sands
Bouse (Pliocene)	4,056'			Sands, fossiliferous, clays, interbedded siltstone, calcareous material.
Miocene	5,336'			Sands, clays, interbedded calcareous siltstones, sands fine to medium grain size.
Volcanics	6,306'			Volcanic material, tuff, altered sands, interbedded siltstones & clays.
				Source: Operator

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
GR/DIL			SAMPLE DESCRP.
GR/SONIC			SAMPLE NO. <u>1865'</u>
GR/CNL/FDC			CORE ANALYSIS
GR/Spectroscopy			DSTs <u>at selected intervals</u>
Dipmeter			

REMARKS _____ APP. TO PLUG
 _____ PLUGGING REP.
 _____ COMP. REPORT

WATER WELL ACCEPTED BY _____

BOND CO. U.S. Fire Insurance Co. BOND NO. 610 149886 2
 DATE _____ ORGANIZATION REPORT on file
 BOND AMT. \$ 25,000 CANCELLED 6-24-86
 FILING RECEIPT 2770 LOC. PLAT X WELL BOOK X PLAT BOOK X
 API NO. 02-027-20040 DATE ISSUED _____ DEDICATION 640 Acrs.

PERMIT NUMBER 00863

11/17/87
WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well Work-Over Deepen Plug Back Same Reservoir Different Reservoir Oil Gas Dry

DESCRIPTION OF WELL AND LEASE

Operator Petroleum Technical Services Company		Address 3000 N. Garfield, #210, Midland, Texas 79705	
Federal, State or Indian Lease Number or name of lessor if free lease Federal		Well Number 4-1	Field & Reservoir Wildcat
Location 2,433' FEL & 2,104' FSL		County Yuma	
Sec. TWP-Range or Block & Survey Sec. 4, T-11-S, R-24-W, G & SRM Survey			
Date spudded 08-17-87	Date total depth reached 09-10-87	Date completed, ready to produce N/A	Elevation (DF, RKB, RT or Gr.) 178 feet
Elevation of casing hd. flange 156 feet			
Total depth 7,000	P.B.T.D. N/A	Single, dual or triple completion? N/A	If this is a dual or triple completion, furnish separate report for each completion.
Producing interval (s) for this completion None		Rotary tools used (interval) 0-7,000'	Cable tools used (interval) N/A
Was this well directionally drilled? No.	Was directional survey made? No.	Was copy of directional survey filed? N/A	Date filed N/A
Type of electrical or other logs run (check logs filed with the commission) GR/DIL, GR/Sonic, GR/CNL/FDC, GR/Spectroscopy, Dipmeter			Date filed in process

CASING RECORD

Casing (report all strings set in well - conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Conductor	36"	30"	Conductor	40'	Ready-Mix	0'
Surface	20"	16"	75#/ft.	328'	435	0'
Intermediate	13-3/4"	10-3/4"	45.5#/ft.	3,116'	1,756	0'

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft)
N/A in.	N/A ft.	N/A ft.	N/A in.	N/A ft.	N/A ft.	N/A	N/A

PERFORATION RECORD

Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval
None				

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

INITIAL PRODUCTION

Date of first production Dry Hole		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)				
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity *API (Corr)
Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

Disposition of gas (state whether vented, used for fuel or sold):

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Owner of the Petroleum Technical Services Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

11-17-87
Date

Dan E. Bennett
Signature

Permit No. 863

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
Form No. 4 File One Copy

DETAIL OF FORMATIONS PENETRATED

FORMATION	TOP	BOTTOM	DESCRIPTION*
Colorado River Gravels	Surface	3,100'	Gravels w/coarse sands, clays, quartz particles
Transition Zone	3,100'	4,056'	Coarse sand interbedded w/siltstones & fine grain sands, clays, some calcareous cemented sands
Bouse (Pliocene)	4,056'	5,336'	Sands, fossiliferous, clays, interbedded siltstone, calcareous material
Miocene	5,336'	6,306'	Sands, clays, interbedded calcareous siltstones, sands fine to medium grain size
Volcanics	6,306'	7,000' (Well TD)	Volcanic material, tuff, altered sands, interbedded siltstones & clays

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

STATE: ARIZONA
COUNTY: YUMA
API 02-027-20040
FIELD: WILDCAT
WELL CLASS: WF
OPR: PETROLEUM TECH SERVICES 4-1 FEDERAL

REISSUE

11S-24W 4
NW NW SE
2104 FSL 2433 FEL
STATUS: D&A

P/W 863

SPUD: 08/16/87 COMP: 09/16/87 ELEV: 178 KB 156 GR
ID: 7010 (09/14/87) FM/TD: VOLCANICS
CONTR: H & W DRLG RIG #2 (R) RIG SUB: 19
PROJ DEPTH/EM: 10000 MIOCENE PERMIT #863

COMP 9/16/87, D&A. NO CORES, ONE DST REISSUE TO CORRECT ELEV, CSG, DTD, ADD LOG
TYPES & TOPS, DST, PLUGGING RECORD, FM/TD, LOCAL CALLS. REPLACES CARD ISSUED 2/8/88

LOG DESCRIPTION: 200 MI SE OIL PROD IN ORANGE COUNTY, CA 3 1/2 MI NE SAN LUIS, AZ; LAT:
3249458 LONG: 11472576;
WELL ID CHANGES: ELEV CHGD FROM 173 KB. ELEV CHGD FROM 155 GR.
CASING: 30 @ 40, 16 @ 328 W/435 SX, 10 3/4 @ 3116 W/1756 SX;
LOG TYPES: BHC 328-7000, 3120-7008, CDL 3120-7010, CNL 3120-7010, CWL 5100-7010, DIPM 5100-7010,
DISF 3120-7006, GRL 3120-6967, 3120-7006, GRN 44-3120, LITH 3120-7010, SONL 3120-7008, SPCT 3120-6967;
LOG TOPS:
TRANSITION ZONE 3100 -2922 VOLCANICS 6306 -6128
MIOCENE 5336 -5158

(OVER)

COPYRIGHT 1997 PETROLEUM INFORMATION/DWIGHTS LLC

DATE 12/15/97 CARD # 00001-F COR

STATE: ARIZONA
COUNTY: YUMA
API 02-027-20040
FIELD: WILDCAT
WELL CLASS: WF
OPR: PETROLEUM TECH SERVICES 4-1 FEDERAL

REISSUE

11S-24W 4
NW NW SE
2104 FSL 2433 FEL
STATUS: D&A

(CONTINUED)

TD 7010 -6832 |
SUBSEA MEASUREMENTS FROM KB;
DRLG COMMENTS: WELL DRILLED TITE HOLE. LOG TOPS NOT RPTD. LOCAL CALLS(LOGS): COLORADO
RIVER GRAVELS 0, BOUSE 4056. SEVERAL DSTS RUN, NO DATA REPORTED.
OPER ADD: 3000 N GARFIELD ST STE 210, MIDLAND, TX, 79705 PHONE (915) 684-6603;

DATE 12/15/97 CARD # 00001-F COR

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

Federal A-16837

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA Permit 863

8. Well Name and No.

Federal "4" No. 1

9. API Well No.

None Assigned

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Yuma, Arizona

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other Dry hole

2. Name of Operator

Petroleum Technical Services Company

3. Address and Telephone No.

3000 N. Garfield, Suite 210, Midland, Texas 79705 915-684-6603

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec. 4, T-11-S, R-24-W, G&SRM Survey
2433' FEL and 2104' FSL

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input checked="" type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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.)

1. Final inspection conducted by Bureau of Land Management and site approved 4-11-96



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

Signed [Signature] Title Owner/Operator Date 5-7-96

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

SUNDRY NOTICES AND REPORTS ON WELLS

SEP 6 1987

O & G

1. Name of Operator Petroleum Technical Services Company
 2. OIL WELL GAS WELL OTHER (Specify) _____
 3. Well Name Federal, Well no. 4-1
 Location 2,433' FEL & 2,104' FSL
 Sec. 4 Twp. 11-S Rge. 24-W County Yuma, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease Federal
 5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	^{Weekly} MONTHLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Operations</u>	ABANDONMENT <input type="checkbox"/>
(OTHER) _____			XX

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

7. 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.)

- 1) Drilled 13-3/4" hole to 3,156'. Completed 08-25-87.
- 2) Ran 76 jts. 10-3/4", K-55, seamless, 45.5#/ft., 8rd. STC casing to 3,116'. Cemented w/1,400 sxs. Class "G" 50-50 pozmix "A" cement + 2% gel + 5% KCL followed by 300 sxs. Class "G" cement +0.76% CFR-2, & 5 % KCL. Cement did not circ. WOC 8 hours & ran 1" tubing down annulus & found top of cement @84'. Pumped 56 sxs. of cement down 1" tubing & circulated cement to surface. WOC 10 hours.
- 3) Set slips & cut-off 10-3/4" casing & installed casing head & BOP stack with Hydril & kill & relief lines & control manifold. Tested casing head & BOP stack, kill & relief lines to 5,000 psi, held ok. Tested Hydril to 50% (2,500 psi). Leaked back, will test 1,800 psi. Repair will be made prior to 6,000'.
- 4) Ran 9-7/8" bit, cement @3,052' in casing. Tested casing to 1,500#-OK. Drilled out cement & drilled to 4,562', 08-31-87 a.m.

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

Signed Dar E. Bennett Title Owner/Operator Date 08-31-87

Permit No. _____

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 Form No. 25 File One Copy

RECEIVED
AUG 27 1987
O & G

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Petroleum Technical Services Company
2. OIL WELL GAS WELL OTHER (Specify) _____
3. Well Name Federal No. 4-1
Location 2,433' FEL and 2,104' FSL
Sec. 4 Twp. -11-S Rge. -24-W County Yuma, Arizona.
4. Federal, State or Indian Lease Number, or lessor's name if fee lease BLM A-16837
5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	Weekly <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	WEEKLY PROGRESS <input checked="" type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Operation</u>	ALTERING CASING <input type="checkbox"/>
(OTHER) _____			ABANDONMENT Report <input type="checkbox"/>

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

7. 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.)

1. Completed building road, location and pits. Drilled 36" hole to 40' and set 30" conductor casing at 40'. Cemented with ready mix cement.
2. Moved in and rigged up Welch and Howell Drilling Company, Rig No. 2.
3. Spudded 13-3/4" hole at 5:30AM, 8-17-87. Drilled 13-3/4" hole to 328'. Ran 20" hole opener and reamed out to 20" to 328'.
4. Ran 11 joints, 16" OD, 75#/ft., J-55, 8 Rd., ST&C Casing and set at 328'.
5. Cemented by Halliburton with 130 sacks Class "G" Cement + 4% Gel + 1/4# flocele per sack and 2% CaCl₂ followed by 200 sacks Class "G" Cement + 1/4# flocele per sack + 2% CaCl₂. Displaced with drilling mud. Ran 1" tubing and tagged top of cement in annulus at 60' and cemented with 105 sacks Class "G" Cement + 2% CaCl₂. Circulated 10 sacks to surface. Wait on cement 18-1/4 hours. Cut off casing and installed casing-head, BOP and relief manifold. Tested head to 2,500psi, BOP and casing to 350psi. Held Okay.
6. Ran 13-3/4" bit and drilled out cement and shoe and started drilling 13-3/4" hole below 16" casing.
7. Drilling 13-3/4" hole at 7:00 A.M. PST, 8-24-87.

8. I hereby certify that the foregoing is true and correct.
Signed Dan E. Bennett Title Owner/Operator Date 8-24-87

Permit No. _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
Form No. 25 File One Copy

APPLICATION TO PLUG AND ABANDON

FIELD Wildcat

OPERATOR Petroleum Technical Services Company ADDRESS 3000 N. Garfield Suite 210
Midland, TX 79705

Federal, State or Indian Lease Number Federal (BLM A-16837) WELL NO. 4-1
 or Lessor's Name if Fee Lease

LOCATION 2,433' FEL & 2,104' ESL, Sec. 4, T-11-S, R-24-W, G&SRM Survey
Yuma County, Arizona

TYPE OF WELL Dry Hole TOTAL DEPTH 7,000'
(Oil, Gas or Dry Hole)

ALLOWABLE (If Assigned) N/A

LAST PRODUCTION TEST OIL N/A (Bbls.) WATER N/A (Bbls.)
 GAS N/A (MCF) DATE OF TEST N/A

PRODUCING HORIZON None PRODUCING FROM --- TO ---

1. COMPLETE CASING RECORD.

- A. 30" Conductor Casing at 40'. Cemented with Ready-Mix to Surface.
- B. 16", 75#/ft., J-55 at 328.0', Cemented with 435 sacks, Cement Circulated.
- C. 10-3/4", 45.5#/ft., K-55 at 3,116.0', Cemented with 1,756 sacks, Cement Circulated.

2. FULL DETAILS OF PROPOSED PLAN OF WORK.

- A. Plug No. 1 - 5,100' - 4,981' with 75 sacks
- B. Plug No. 2 - 3,160' - 3,060' with 75 sacks
- C. Plug No. 3 - 40' - Surface with 20 sacks

Plugs set by Halliburton. Placed 9.4 PPG mud between all plugs. Obtained verbal approval from Arizona Oil & Gas Conservation Commission (Phoenix Office) and Bureau of Land Management (Yuma Office) of plugging procedure 9-12-87

DATE COMMENCING OPERATIONS 8-17-87 Plug & Abandoned 9-14-87

NAME OF PERSON DOING WORK Petroleum Technical Services Company ADDRESS 3000 N. Garfield Suite 210
Midland, TX 79705

RECEIVED
 SEP 25 1987
 O & G CONSV. COMM.

Dan E. Bennett
 Signature
 Owner/Operator

3000 N. Garfield Suite 210 Midland, TX 79705
 Title
 Address

9-22-87
 Date

Date Approved _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
 By: *R. A. Yanna*

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
 Application to Plug and Abandon
 File Two Copies

Form No. 9

SUNDRY NOTICES AND REPORTS ON WELLS

RECEIVED
SEP 19 1987
O & G CON. COMM.

1. Name of Operator Petroleum Technical Services Company
 2. OIL WELL GAS WELL OTHER (Specify) _____
 Federal 4-1
 3. Well Name _____
 Location 2,433' FEL & 2,104' FSL
 Sec. -4 Twp. -11-S Rge. -24-W County Yuma, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease BLM-A-16837

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	Weekly <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	MONTHLY PROGRESS <input checked="" type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) _____	ALTERING CASING <input type="checkbox"/>
(OTHER) _____			ABANDONMENT <input type="checkbox"/>

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

7. 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.)

1. Drilled 9-7/8" hole to 7,000', complete at 3:30AM, 9-10-87
2. Ran Open Hole logs by Schlumberger, GR/DIL, GR/Sonic, GR/CNL/FDC, GR/Spectroscopy, Dipmeter. Took Wireline DST's at selected intervals.
3. Obtained verbal approval from BLM (Yuma Office) and Arizona O&GCC (Phoenix Office) of plugging procedure on 9-12-87.
4. Ran 4-1/2" drill pipe open-ended to 5,100' and spotted 75 sacks Class "G" Cement plug with 0.65% CFR-2 back to 4,981'. Spotted 75 sacks Class "G" Cement plug from 3,160' back to 3,060', 9-12-87. Wait on cement 24 hours and removed BOP stack and cleaned out drilling pits. 9.4PPG Mud between all plugs.
5. Removed casing heads and spotted 20 sacks Class "G" Cement plug from 40' to surface. Completed by Halliburton 9-14-87, AM.

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

Signed Don E. Bennett Title Owner/Operator Date 9-16-87

Permit No. _____

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 Form No. 25 File One Copy

SUNDRY NOTICES AND REPORTS ON WELLS

RECEIVED
SEP 14 1987
O & G CONSV. COMM.

1. Name of Operator Petroleum Technical Services Company
 2. OIL WELL GAS WELL OTHER (Specify) _____
 3. Well Name Federal 4-1
 Location 2,433' FEL & 2,104' FSL
 Sec. 4 Twp. - 11-S Rge. -24-W County Yuma, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease BLM-A-16837
 5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	^{Weekly} MONTHLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) _____	ABANDONMENT <input type="checkbox"/>

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

7. 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.)

1. Drilled 9-7/8" hole to 4,715'. Pulled out of hole for new bit and change stabilizer placement. Repaired Hydril BOP and tested to 2,500psi, Held OK - 15 min. test.
2. Ran 9-7/8" bit, stabilizer, drill collars and drill pipe and resumed drilling.
3. Drilled 9-7/8" hole to 6,618' at 9-09-87, A.M.

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

Signed Dan E. Bennett Title Owner/Operator Date 9-10-87

Permit No. _____

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 Form No. 25 File One Copy

Pet. Technical Services # 4-1 Fed.

8/25/87

Departed for well at 2:45 PM

Arrived at well, 3 miles from San Luis, AZ, at 10:00 PM.

Mr. J. Bishop w/ PTS reported:

1. 30" Conductor pipe was cemented at 40'
2. 16" 75 lb., J-55, casing was cemented at 328' with 130 Sx of class "G" cement, 4% gel, and followed by 200 Sx of "G" cement. No returns at the surface. With 1" drill pipe hanging at 60' pumped in 105 Sx of cement, filling to surface
3. Dipped up 16" annular preventer & tested.
4. Drilled 13 3/4" hole 328' - 3156' (T.D.)

8/26/87

Witnessed running in of 10 3/4" casing to 3116'. Were not able to run pipe to 3150' as proposed because of poor hole conditions at bottom. Cemented the 10 3/4" casing with 1700 Sx of cement (incl. additives) with no returns to the surface. Cement in place at 5:00 AM. WOC for 4 hours & then feel for top of cement.

At 9:00 AM felt for top of cement at 86' & with 1" pipe at 86' pumped in 150 Sx, filling to the surface.

Started removing 16" Hydrill & cutting the 10 3/4" casing. Finished at 3:00 PM. Started nipping up

8/27/87 Finished nipping up @ 1:30 AM. Stack arrangement as follows: Bradenhead; Spool w/ kill + choke lines; Double ram preventors (pipe ^{above} ~~below~~ + blind ^{below} ~~above~~); Annular.

Testing started at 2:00 AM, as follows:

1. Test plug was placed in Bradenhead + blind rams closed. Tested choke manifold lines + valves to 3500 #. Had numerous leaks between Bradenhead + Spool connection + 2 unions in the lines were found defective. Good test at 7:30 AM.
2. Pipe-ram preventer was tested with drill pipe in hole to 3500 #. Test held at 3500 # 15 Min. test
3. Blind-ram preventer was tested with drill pipe out of hole to 3500 #. Test held at 3500 # 15 Min. test.
4. Annular preventer (Hydril) was tested to 3500 # but would not hold the pressure. Dropped to 1800 #. Could not detect any external leaks. Tested Hydril with the pipe rams closed to 3500 #. Held pressure for 10 minutes. When the pipe rams were released the pressure dropped to 1800 # and stayed there. Either the seal was damaged during installation or something else internal in the Hydril is defective.

Operator was given permission to go ahead + start drilling but to repair or replace the Hydril before they can drill deeper than 6000'. Left well at 12:45 PM
Arrived in Mesa @ 5:15 PM.

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION

PERMIT 863

REPORT ON PROPOSED OPERATIONS

Petroleum Technical Svcs. Co.
3000 North Garfield St., Ste. 210
Midland, TX 79705

Phoenix, ARIZONA
July 14, 1987

Your proposal to drill well 4-1 Federal
A.P.I. No. 02-027-20040 Section 4 T. 11S R. 24W G&SR B. & M.
wildcat field, Yuma area, --- pool,
Yuma County, dated 7/6/87, received 7/9/87 has been examined in conjunction with records
filed in this office. THE PROPOSAL IS APPROVED PROVIDED:

1. Drilling mud consistent with sound drilling practices shall be used at all times. Quantities of drilling mud materials sufficient to insure well control shall be maintained readily accessible for immediate use at all times.
2. The well is cased and cemented in such a manner as to protect all zones that contain oil, gas, or fresh water, and to provide well control during drilling operations.
3. Blowout prevention equipment shall be installed, used, maintained, and tested in a manner necessary to assure well control throughout the drilling, completion or abandonment of the well.
4. Samples of all cores and cuttings, taken at maximum intervals of ten feet, shall be shipped or mailed, charged prepaid to:
 - a. Oil & Gas Conservation Commission, Phoenix Office.
 - b. Bureau of Geology & Mineral Technology, University of Arizona, 845 N. Park, Tucson, AZ 85719.
5. The status of completed drilling operations (Form 25) shall be completed and filed with the Commission on a timely basis.
6. THIS COMMISSION SHALL BE NOTIFIED:
 - a. Immediately when drilling operations commence.
 - b. To witness the running and cementing of the 10 3/4" casing.

BOND _____

D. J. BRENNAN, Executive Director

By _____
Enforcement Director

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 30 days after the work has been completed or the operations have been suspended.

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION

PERMIT 863

REPORT ON PROPOSED OPERATIONS

Petroleum Technical Svcs. Co.
3000 North Garfield St., Ste. 210
Midland, TX 79705

Phoenix, ARIZONA
July 14, 1987

Your proposal to drill well 4-1 Federal,
A.P.I. No. 02-027-20040, Section 4, T. 11S, R. 24W, G&SR B. & M.,
wildcat field, Yuma area, pool,
Yuma County, dated 7/6/87, received 7/9/87 has been examined in conjunction with records
filed in this office.

- c. To inspect the installed blowout prevention equipment prior to drilling below the shoe of the 10 3/4" casing at 3150'.

NOTE:

1. See enclosed instructions for handling well samples.
2. Personnel to call to witness above operations:
 - a. R. A. Ybarra (602) 827-1657
 - b. D. J. Brennan (602) 249-3178

BOND No. 610149886 2, Blanket

D. J. BRENNAN, Executive Director

By R. A. Ybarra
Enforcement Director

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 30 days after the work has been completed or the operations have been suspended.

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

NAME OF COMPANY OR OPERATOR

Petroleum Technical Services Company

Address

City

State

3000 North Garfield Street, Suite 210, Midland, Texas 79705

Drilling Contractor

To be determined.

Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor		Well number	Elevation (ground)
Federal (BLM A-16837)		4-1	154.8'
Nearest distance from proposed location to property or lease line:		Distance from proposed location to nearest drilling, completed or applied--for well on the same lease:	
2,380 feet		None feet	
Number of acres in lease:		Number of wells on lease, including this well, completed in or drilling to this reservoir:	
3,575.25		1	
If lease, purchased with one or more wells drilled, from whom purchased:		Name Address	
N/A			
Well location (give footage from section lines)		Section--township--range or block and survey	Dedication (Comply with Rule 105)
2,432.65' FEL & 2,103.91' FSL		Sec. 4, T-11-S, R-24-W, G&S R.M.	N/A Sec 4 (640 Acs)
Field and reservoir (if wildcat, so state)		County	
Wildcat		Yuma County	
Distance in miles, and direction from nearest town or post office			
3.4 miles NE of San Luis, Yuma County, Arizona			
Proposed depth:	Rotary or cable tools	Approx. date work will start	
10,000'	Rotary	07-15-87	
Bond Status	Organization Report	Filing Fee of \$25.00	
*Filed with commissioner	On file 03-19-87 Or attached	Attached Attached	
Amount \$25,000			
Remarks:			
*Filed with the Commission 07-06-87.			
API #20040			

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Owner/Operator of the Petroleum Technical Services Co. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

David Bennett
Signature

07-06-87
Date

Permit Number: 863
Approval Date: 7/13/87
Approved By: R. A. Ytana

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Drill or Re-enter
File Two Copies

Form No. 3

- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION.
- Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES XX NO _____
- If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES _____ NO _____. If answer is "yes," Type of Consolidation _____
- If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Land Description SEC. 4, T.11S., R. 24W., G. & S.R.M., YUMA COUNTY, ARIZONA						
CERTIFICATION							
I hereby certify that the information above is true and complete to the best of my knowledge and belief.							
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> </div> <div style="width: 50%; border: 1px solid black; padding: 5px;"> <p>Name: <u>Don C. Bennett</u></p> <p>Position: <u>Owner/Operator</u></p> <p>Company: <u>Petroleum Technical Services</u></p> <p>Date: <u>07-06-87</u></p> <p><u>E 1/4 COR. SEC. 4</u> <u>1920 GLD.</u></p> <p>I hereby certify that the location shown on the plat was proved by field notes of actual survey made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.</p> <p style="text-align: center;"></p> <p>Date Surveyed: <u>JUNE 12, 1987</u></p> <p>Registered Professional Engineer and/or Land Surveyor: <u>THOMAS A. YOWELL</u></p> <p>Certificate No.: <u>L.S. 6022</u></p> </div> </div>							
<p>WELL LOCATION, SET $\frac{1}{2}$" RE-BAR & 6' STEEL POST GUARD.</p> <p>WELL COORDINATES: NORTH 547,161.93 EAST 199,439.00</p> <p><u>2432.65'</u> <u>Elev. G.L. - 154.8'</u> <u>2103.91'</u></p> <p><u>1/4 COR. SEC. 4</u> <u>1920 GLD.</u></p> <p><u>SOUTH LINE SEC. 4</u> <u>S.E. COR. SEC. 4</u> <u>1920 GLD.</u></p> <p><u>M. - 2640.85'</u></p>							
PROPOSED CASING PROGRAM							
Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement	Type
16" OD	65#/ft.	H-40	0'	315'	0' - 315'	300	Class "G"
10-3/4" OD	45.50#	J-55	0'	3,150'	0' - 3,150'	1,500	Class "G"
5-1/2" OD	17#/ft.	N-80	0'	700'			
		K-55	700'	7,200'			
		N-80	7,200'	10,000'	8,500' - 10,000'	365	Class "G"



PERMIT TO DRILL

This constitutes the permission and authority from the
OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: Petroleum Technical Services Company
(OPERATOR)

to drill a well to be known as

4-1 Federal
(WELL NAME)

located 2104' FSL and 2433' FEL

Section 4 Township 11S Range 24W, Yuma County, Arizona.

The 640 acres of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 14th day of July, 1987.

OIL AND GAS CONSERVATION COMMISSION

By [Signature]
EXECUTIVE DIRECTOR
ENFORCEMENT DIRECTOR

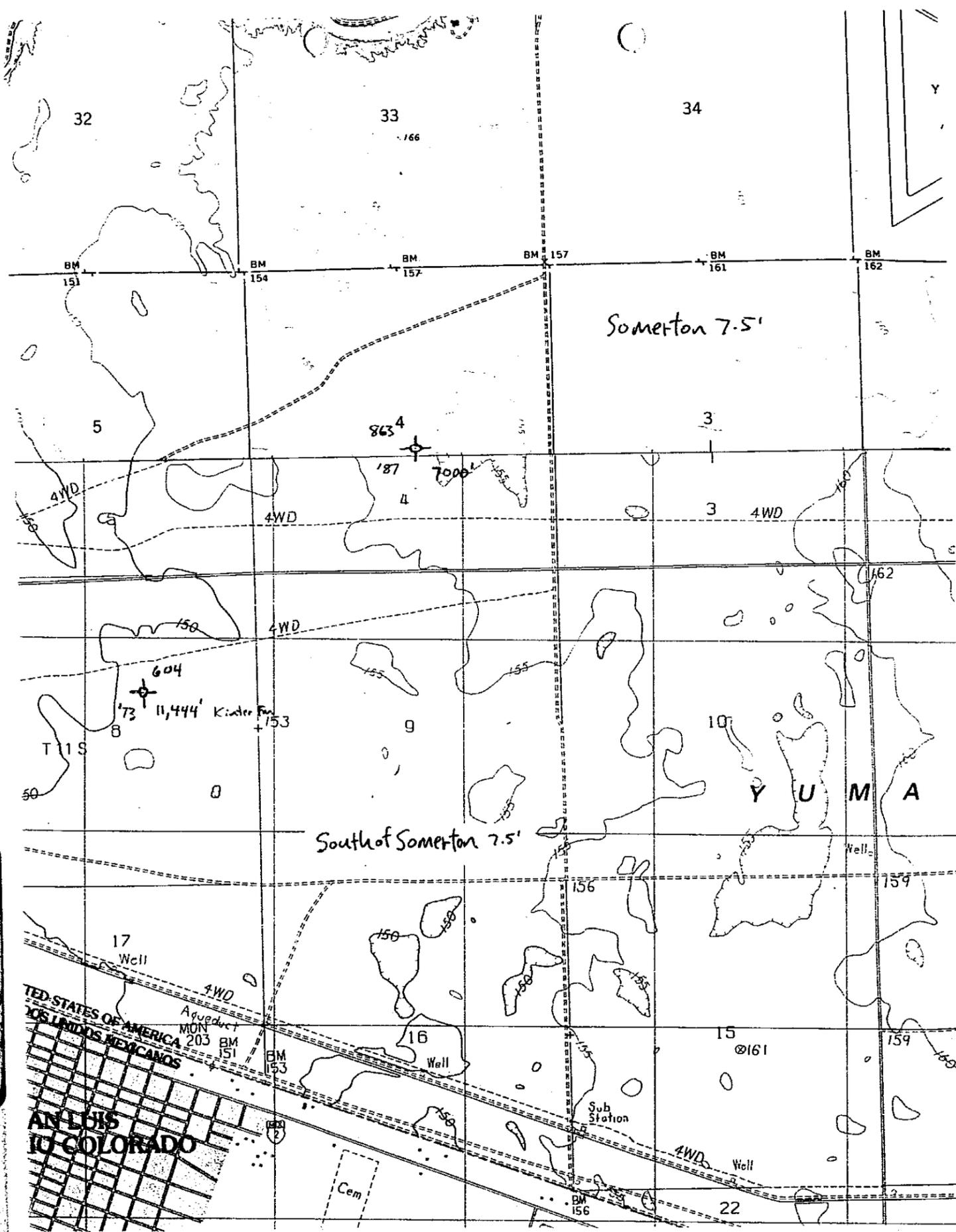
PERMIT 00863

RECEIPT NO. 2770

A.P.I. NO. 02-027-20040

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27



TED STATES OF AMERICA
LOS ANGELES MEXICANOS
ANGELES
IN COLORADO

Somerton 7.5'

South of Somerton 7.5'

Y U M A

T 11 S

11,444' Kinder Ferry

Aqueduct
MON 203

Sub Station

Cem

BM 151 BM 154 BM 152 BM 157 BM 161 BM 162

863.4

5

33

34

32

3

3

162

50

0

9

10

16

15

159

17

Well

156

161

159

Well

22

BM 156



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500



Larry D. Fellows
Director and State Geologist

June 24, 1996

Mr. Don C. Bennett
Petroleum Technical Services Co.
3000 N. Garfield, Suite 210
Midland, Texas 79705

file 863

Re: Petroleum Technical Services
\$25,000 Blanket Performance Bond Serial No. 610 149886 2
(United States Fire Insurance Co.)

Dear Mr. Bennett:

I received your letter of June 7 requesting release of the referenced bond today.

Our records show that Petroleum Technical Services Company has no outstanding drilling or plugging obligations in Arizona. As a result, this letter serves as written permission of the Oil and Gas Conservation Commission of the State of Arizona to terminate the referenced bond.

Please advise if I may be of further assistance.

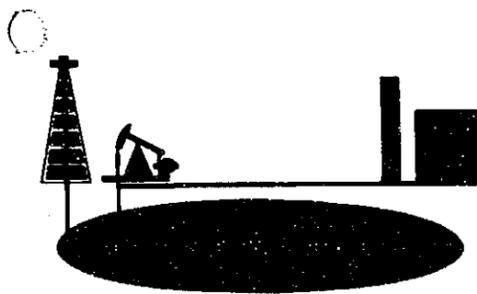
Sincerely,

Steven L. Rauzi

Steven L. Rauzi
Oil & Gas Program Administrator

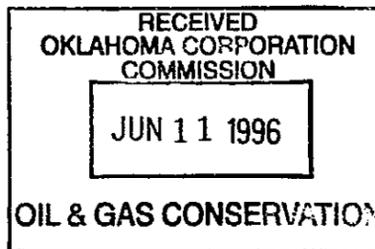
Enclosure: Copy of canceled bond

3000 N. GARFIELD, SUITE 210
MIDLAND, TEXAS 79705



OFFICE PHONE
(915) 684-6603

DRILLING, COMPLETION, PRODUCING OPERATIONS
OIL PROPERTY MANAGEMENT



June 7, 1996

file 863

State of Arizona
Oil & Gas Conservation Commission
219 Jim Thorpe Building
Oklahoma City, Oklahoma 73105

Arizona Geological Survey
416 W. Congress, Ste. 100
Tucson, Arizona 85701
Attn: Steven Rauzi

RE: Blanket Bond
Bond #610-149886-2

Dear Gentlemen:

All wells owned and operated by Petroleum Technical Services Company in the Arizona area have been plugged and abandoned. Therefore, at this time we are requesting a release of the above mentioned Blanket Bond #610-149886-2, attached. If any further information is needed to get this bond released, please advise.

Yours Very Truly,

Don C. Bennett
Don C. Bennett
Owner/Operator



915-684-6742

JOHNNY JOHNSON INS.

458 P02

JUN 07 '96 15:02

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. 610 149886 2

That we: PETROLEUM TECHNICAL SERVICES COMPANY

of the County of Midland in the State of Texas

as principal, and UNITED STATES FIRE INSURANCE COMPANY

of New York with offices in Dallas, Texas

AUTHORIZED TO DO BUSINESS WITHIN THE STATE OF ARIZONA.

as surety, are held and firmly bound unto the State of Arizona and the Oil and Gas Conservation Commission, hereinafter referred to as the "Commission", in the penal sum of Twenty five thousand and no/100 Dollars - (\$25,000.00) lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation are that, whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to-wit:

"Blanket"

(May be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the Laws of this State and the rules, regulations and orders of the Commission, especially with reference to the requirements of A.R.S. § 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil and Gas Conservation Commission all notices and records required by said Commission, then in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, this obligation is void; otherwise it shall remain in full force and effect.

Whenever the principal shall be, and declared by the Oil and Gas Conservation Commission in violation of the Laws of this State and the rules, regulations and orders of the Commission, the surety shall promptly:

1. Remedy the violation by its own efforts, or
2. Obtain a bid or bids for submission to the Commission to remedy the violation, and upon determination by the Commission and the Surety of the lowest responsible bidder, arrange for a contract between such bidder and the Commission, and make available as work progresses sufficient funds to pay the cost of remedying the violation; but not exceeding, including other costs and damages for which the surety may be liable hereunder, the amount set forth in the first paragraph hereof.

Liability under this bond may not be terminated without written permission of this Commission.

WITNESS our hands and seals, this 2nd day of July, 1987.

PETROLEUM TECHNICAL SERVICES COMPANY

By: Dan C. Bennett
Dan C. Bennett, Owner Principal

WITNESS our hands and seals, this 2nd day of July, 1987.

EXECUTED IN DUPLICATE UNITED STATES FIRE INSURANCE COMPANY

By: L. D. Beck, Attorney-in-Fact Surety

(Surety, Resident Arizona Agent
if issued in a state other than Arizona)

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved _____
Date _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Bond
File Two Copies
Form No. 2

Permit No. _____



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500



Larry D. Fellows
Director and State Geologist

May 13, 1996

Mr. Charles E. Koch
Roberts and Koch
1540 Independence Plaza
400 West Illinois
Midland, Texas 79701

file 863

Re: Roberts and Koch
Blanket Performance Bond 800G2681 (Travelers Indemnity Co.)

Dear Mr. Koch:

I received your letter and attachments of May 9 today. A copy of the referenced bond is attached for your record.

Our records show that Roberts and Koch have no outstanding drilling or plugging obligations in Arizona. As a result, this letter serves as written permission of the Oil and Gas Conservation Commission of the State of Arizona to terminate the referenced bond.

Please advise if I may be of further assistance.

Sincerely,

Steven L. Rauzi

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosures

Roberts and Koch

1540 Independence Plaza
400 W. Illinois
MIDLAND, TEXAS 79701
915 - 683-6231
Fax 915 - 683-6529

ROSS D. ROBERTS
CHARLES E. KOCH

May 9, 1996

Arizona Geological Survey
416 W. Congress
Suite 100
Tuscon, Arizona 85701

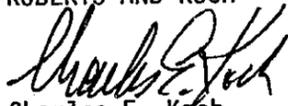
Re: Plugging Bond For
State of Arizona

Gentlemen:

Would you please advise the necessary procedure for cancelling a plugging bond in the State of Arizona. We enclose copies of Form 3160-5 for the Federal "4" No. 1, and Form 3160-5 for the Federal "A" 26-1 indicating final inspection conducted by Bureau of Land Management approved the site on 4-11-96. We also enclose letter from the United State Department of Interior advising that the inspection revealed that both sites have been adequately restored, revegetated and cleaned.

Yours very truly,

ROBERTS AND KOCH


Charles E. Koch

CEK/js

Enclosure





United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Arizona State Office
3707 N. 7th Street
P.O. Box 16563
Phoenix, Arizona 85011



IN REPLY REFER TO:

A-16837
A-18254

April 25, 1996

CERTIFIED MAIL -- RETURN RECEIPT REQUESTED

Petroleum Technical Services Company
3000 North Garfield, Suite 210
Midland, Texas 79705

Re: A-16837
Well No. 4-1

A-18254
Well No. 26-1

PIN 863



Gentlemen:

A field inspection was conducted on April 11, 1996, on your Well No. 4-1, Federal Lease A-16837, and Well No. 26-1, Federal Lease A-18254, to determine the reclamation status of these well sites. The inspection reveals that both sites have been adequately restored, revegetated and cleaned.

It is recommended that you complete and submit the enclosed sundry notice forms, in triplicate, for each of these wells. The type of submission should be "Final Abandonment Notice" and type of action should be "Abandonment." After submission of these forms and subsequent approval, the BLM is satisfied that there is no further outstanding obligations or liabilities on these leases.

If you have any questions on completion of the form, or other questions, please contact John Haas at (602) 650-0222.

Sincerely,

Michael A. Ferguson

Michael A. Ferguson
Deputy State Director
Resource Planning, Use
and Protection Division

Enclosure

cc: District Manager, Yuma
Arizona Geological Survey
Roberts & Koch
400 West Illinois, Suite 1540
Midland, TX 79701

Roberts and Koch

1540 Independence Plaza
400 W. Illinois
MIDLAND, TEXAS 79701
915 - 683-6231

ROSS D. ROBERTS
CHARLES E. KOCH

Mr. John Rahlfs
John W. Rahlfs Co.
P. O. Box 10588
Midland, Texas 79702

Re: Roberts and Koch
\$25,000 Performance Bond
Bond Number 800G2681

Dear John:

Per our conversation, we would appreciate your seeing to it that the Arizona bond required by attachments hereto be maintained in force until January 1, 1992.

Yours very truly,

ROBERTS AND KOCH

Charles E. Koch

Charles E. Koch

Enclosure

MAY 13 1991

Roberts and Koch

1540 Independence Plaza
400 W. Illinois
MIDLAND, TEXAS 79701
915 - 683-6231

ROSS D. ROBERTS
CHARLES E. KOCH

May 10, 1991

Mr. Daniel J. Brennan
Executive Director
Oil and Gas Conservation Commission
State of Arizona
5150 N. 16th Street, Suite B-141
Phoenix, Arizona 85016

Re: Roberts and Koch
\$25,000 Performance Bond
Bond Number 800G2681

Dear Mr. Brennan:

We have determined we do not wish to release the captioned bond as proposed by Continental Guaranty & Credit Corporation. We are further advising them of this election.

Yours very truly,

ROBERTS AND KOCH

Charles E. Koch

Charles E. Koch

CEK/js

Enclosure

863

864



Oil and Gas Conservation Commission

STATE OF ARIZONA

5150 N. 16th STREET, SUITE B-141
PHOENIX, ARIZONA 85016
PHONE: (602) 255-5161

RECEIVED

MAY 9 1991

Ans'd.....

May 5, 1991

Mr. Charles Koch
Roberts and Koch
400 West Illinois, Suite 1540
Midland, Texas 79701

Dear Mr Koch,

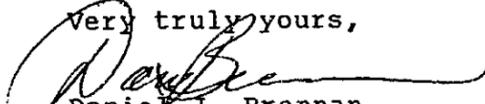
Confirming our conversation of this afternoon, enclosed is a copy of the letter from Continental Insurance requesting us to release the \$25,000 performance bond you have posted with the Commission.

After you have had a chance to study this request, please let us know your decision on whether or not you want this bond released. As you know, at the present time you have no outstanding obligations under this bond and you are free to request its release.

If you decide to have the bond released, we will comply promptly. We hope to see you drilling in Arizona again soon.

Thank you for your cooperation.

Very truly yours,


Daniel J. Brennan
Executive Director

5/30/91

Please see copies of correspondence attached as this insured doesn't wish this bond to be cancelled.

Frances Puckett
John W. Rahlfs Co.



Continental Guaranty
& Credit Corporation
Surety Division
Plaza of the Americas
600 North Pearl Street
Dallas, TX 75201

May 2, 1991

State of Arizona
Oil & Gas Conservation Commission
5150 North 16th Street
Suite B141
Phoenix, Arizona 85016

Re: Roberts & Koch
\$25,000 Performance Bond
Bond Number 800G2681

Gentlemen:

Continental Guaranty & Credit Corp. has contracted with The Travelers Indemnity Co. to service Travelers existing surety bonds. Accordingly, we need your assistance in handling the above referenced bond(s).

Please accept this as The Travelers Indemnity Company's notice to be fully released as Surety on the above mentioned bond. If this bond cannot be released at this time, we would like to cancel any future liability. Accordingly, we ask that you please forward cancellation evidence to our office at your earliest possible convenience.

Enclosed for your reply, is a self-addressed, postage paid envelope. Your assistance in this matter would be greatly appreciated.

Sincerely,

CONTINENTAL GUARANTY & CREDIT CORP.

Angela Burton
Angela Burton
Dallas Surety Department
(214) 220-1589

cc: John Rahlfs Co.

Acknowledged date of cancellation: _____
By: _____
Title: _____
Today's Date: _____



**Continental
Insurance.**

**Continental Guaranty
& Credit Corporation**
Surety Division
Plaza of the Americas
600 North Pearl Street
Dallas, TX 75201

DATE: March 11, 1991
TO: John W. Rahlfs Co.
RE: Roberts, Koch & Cartwright
Bond Number(s): 679F5870 & 800G2681
Oil & Gas Bonds

Continental Guaranty & Credit Corporation is contracted with The Travelers Indemnity Company as a servicing agent for the existing Travelers surety bonds. Therefore, the following information is required for our handling of the referenced bond(s).

The above bond(s) expires of its own terms on:
The above bond(s) are due for renewal billing on: 6-91

PLEASE CHECK WITH THE PRINCIPAL and furnish us with the following information:

- (X) 1. Is this bond to be continued for the coming year?
Please note that the applicable cancellation clause for this bond is:
- () 2. Please have the attached application completed, signed, witnessed/notarized and returned.
- (X) 3. Please provide us with a copy of the annual Financial Statement on the Principal/Business.
- (X) 4. Please provide us with a copy of the personal Financial Statement(s) on the Owner/Indemnitor(s).
- (X) 5. Other: Be advised Travelers does not want to renew this bond. Please try and place with another surety market and advise accordingly. We await your response.

IF BOND IS NOT TO BE RENEWED

- (X) 6. Please furnish us with a release, signed and dated by the Obligee, &/ or dismissal papers from the court so that we may properly cancel this bond.
- (X) 7. Other: If this bond cannot be cancelled or replaced, please forward requested information at your earliest possible convenience.

Very truly yours,
CONTINENTAL GUARANTY & CREDIT CORP.

Angela Burton
Angela Burton
Dallas Surety Department
(214) 220-1589

MAR 13 1991



Oil and Gas Conservation Commission

STATE OF ARIZONA

3110 N. 19th AVENUE, SUITE 190

PHOENIX, ARIZONA 85015

PHONE: (602) 255-5161

February 16, 1988

Mr. Donald C. Bennett
Petroleum Technical Services Co.
3000 N. Garfield, Ste. 210
Midland, TX 79705

Re: Wells No. 4-1 Federal and
26-1 Federal
Yuma County, AZ

Dear Mr. Bennett:

This letter is to remind you that we have not received the dipmeter logs by Schlumberger on above wells. Also not received yet are the mud logs on both wells and the DST's data on Well No. 4-1 Federal.

Please file the requested material at your earliest convenience.
Thank you.

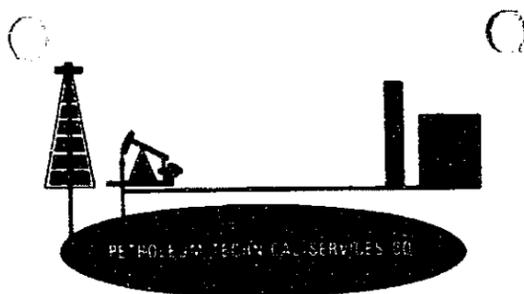
Sincerely,

R. A. Ybarra

R. A. Ybarra
Enforcement Director

RAY:lr

3000 N. GARFIELD, SUITE 210
MIDLAND, TEXAS 79705



OFFICE PHONE
1915 684-6603

DRILLING, COMPLETION, PRODUCING OPERATIONS,
OIL PROPERTY MANAGEMENT

December 14, 1987

Oil & Gas Conservation Commission
State of Arizona
3110 North 19th Avenue Suite 190
Phoenix, Arizona 85015

Attention: R.A. Ybarra

RE: Well Log Copy
Federal No. 4-1
Federal "A" No. 26-1
Yuma County, Arizona

Dear Sir:

I have enclosed copies of our well logs on both the subject wells as per Conservation Commission requirements. If further information is needed, please advise.

Yours very truly,

A handwritten signature in cursive script that reads "Don C. Bennett".

Don C. Bennett

cc: Ross Roberts



Oil and Gas Conservation Commission

STATE OF ARIZONA

3110 N. 19th AVENUE, SUITE 190

PHOENIX, ARIZONA 85015

PHONE: (602) 255-5161

December 10, 1987

Mr. Don C. Bennett
Petroleum Technical Services Co.
3000 North Garfield, Suite 210
Midland, TX 79705

Re: Wells No. 4-1 and 26-1 Federal
Yuma County

Dear Mr. Bennett:

This letter is to remind you that logs on subject wells are past due.

Please see to it that the logs are filed within the next two weeks.
Thank you.

Sincerely,

R. A. Ybarra

R. A. Ybarra
Enforcement Director

RAY:lr



Oil and Gas Conservation Commission

STATE OF ARIZONA

3110 N. 19th AVENUE, SUITE 190

PHOENIX, ARIZONA 85015

PHONE: (602) 255-5161

November 13, 1987

Mr. Don C. Bennett
Petroleum Technical Services Co.
3000 North Garfield, Suite 210
Midland, TX 79705

Dear Don:

This letter is to remind you that the logs and completion report (Form 4) on subject well are required to be filed with the Commission 30 days after completion of the well.

The well file and logs will be kept confidential until 6 months from the date of completion.

If we can be of any assistance, please let us know.

Sincerely,

R. A. Ybarra

R. A. Ybarra
Enforcement Director

RAY:lr
Encl: Completion Report



Oil and Gas Conservation Commission

STATE OF ARIZONA

3110 N. 19TH AVENUE, SUITE 190

PHOENIX, ARIZONA 85015

PHONE: (602) 255-5161

July 14, 1987

Mr. Don C. Bennett
Petroleum Technical Services Company
3000 North Garfield, Suite 210
Midland, TX 79705

Dear Mr. Bennett:

Enclosed please find Receipt No. 2770 covering the \$25 filing fee, Report on Proposed Operations, approved Application to Drill, approved Permit to Drill, and a copy of the approved drilling bond.

Please make sure that the samples are prepared and packaged according to the instructions attached to the Report on Proposed Operations.

Thanks for doing business in Arizona, and we wish you a successful venture. If we can help in anyway, please call.

Sincerely,

R. A. Ybarra,
Enforcement Director

RAY:lme

Enclosures

John
Date 7/13 Time 2:46

WHILE YOU WERE OUT

M. Don Bennett
of Petroleum Tech. Serv.
Phone 915-684-6603

Area Code	Number	Extension
TELEPHONED	<input checked="" type="checkbox"/>	PLEASE CALL
CALLED TO SEE YOU		WILL CALL AGAIN <input checked="" type="checkbox"/>
WANTS TO SEE YOU		URGENT

RETURNED YOUR CALL

Message Will be there 45

min. today.

K
Operator

PERFORMANCE BOND
KNOW ALL MEN BY THESE PRESENTS

JUL 13 1987

Bond Serial No. 610 149886 2

That we: PETROLEUM TECHNICAL SERVICES COMPANY
of the County of Midland in the State of Texas
as principal, and UNITED STATES FIRE INSURANCE COMPANY
of New York with offices in Dallas, Texas

AUTHORIZED TO DO BUSINESS WITHIN THE STATE OF ARIZONA.
as surety, are held and firmly bound unto the State of Arizona and the Oil and Gas Conservation Commission, hereinafter referred to as the "Commission", in the penal sum of Twenty five thousand and no/100 Dollars - (\$25,000.00) lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation are that, whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to-wit:

"Blanket"

(May be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the Laws of this State and the rules, regulations and orders of the Commission, especially with reference to the requirements of A.R.S. § 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil and Gas Conservation Commission all notices and records required by said Commission, then in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, this obligation is void; otherwise it shall remain in full force and effect.

Whenever the principal shall be, and declared by the Oil and Gas Conservation Commission in violation of the Laws of this State and the rules, regulations and orders of the Commission, the surety shall promptly:

1. Remedy the violation by its own efforts, or
2. Obtain a bid or bids for submission to the Commission to remedy the violation and upon determination by the Commission and the Surety of the lowest responsible bidder, arrange for a contract between such bidder and the Commission, and make available as work progresses sufficient funds to pay the cost of remedying the violation, but not exceeding, including other costs and damages for which the surety may be liable hereunder, the amount set forth in the first paragraph hereof.

Liability under this bond may not be terminated without written permission of this Commission.

WITNESS our hands and seals, this 2nd day of July, 19 87.

PETROLEUM TECHNICAL SERVICES COMPANY

By: Dan C. Bennett
Dan C. Bennett, Owner Principal

WITNESS our hands and seals, this 2nd day of July, 19 87.

EXECUTED IN DUPLICATE UNITED STATES FIRE INSURANCE COMPANY

By: L. D. Beck
L. D. Beck, Attorney-in-Fact Surety

Roger P. Newman
(Surety, Resident Arizona Agent
If issued in a state other than Arizona)

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved 7/13/87
Date
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: R. A. Ybana

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Bond
File Two Copies

Form No. 2

Permit No. 863

POWER OF ATTORNEY
UNITED STATES FIRE INSURANCE COMPANY
PRINCIPAL OFFICE, NEW YORK, N.Y.

KNOW ALL MEN BY THESE PRESENTS: That UNITED STATES FIRE INSURANCE COMPANY ("Company"), a corporation duly organized and existing under the laws of the State of New York, and having its administrative offices in the Township of Morris, State of New Jersey, has made, constituted and appointed, and does by these presents make, constitute and appoint
L. D. Beck of Dallas, Texas

its true and lawful Agent(s) and Attorney(s)-in-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, seal, acknowledge and deliver: Any and all bonds, undertakings, and any and all consents of surety-----

and to bind the Company thereby as fully and to the same extent as if such bonds had been duly executed and acknowledged by the regularly elected officers of the Company at its principal or administrative offices in their own proper persons.

This Power of Attorney limits the act of those named therein to the bonds and undertakings specifically named therein, and they have no authority to bind the Company except in the manner and to the extent therein stated.

This Power of Attorney revokes all previous powers issued in behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF United States Fire Insurance Company has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 22nd day of March, 19 85.



Attest:

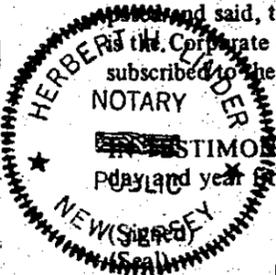
UNITED STATES FIRE INSURANCE COMPANY

Ernest E. Smith
Assistant Secretary
Ernest E. Smith

Joseph P. McGrath
Vice President
Joseph P. McGrath

STATE OF NEW JERSEY) ss.:
COUNTY OF MORRIS)

On this 22nd day of March, 19 85, before the subscriber, a duly qualified Notary Public of the State of New Jersey, came the above-mentioned Vice President and Assistant Secretary of United States Fire Insurance Company, to me personally known to be the officers described in, and who executed the preceding instrument, and they acknowledged the execution of the same, and being by me duly sworn, deposed and said, that they are the officers of said Company aforesaid, and that the seal affixed to the preceding instrument is the Corporate Seal of said Company, and the said Corporate Seal and their signatures as officers were duly affixed and subscribed to the said instrument by the authority and direction of the said Company.



IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal at the Township of Morris, the 22nd day of March, 19 85.

HERBERT H. LINDER
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires April 25, 1988

Herbert H. Linder
Notary Public

This Power of Attorney is granted pursuant to Article IV of the By-Laws of UNITED STATES FIRE INSURANCE COMPANY as now in full force and effect which provides as follows:

ARTICLE IV., Execution of Instruments: "The Chairman of the Board, Vice-Chairman of the Board, President, or any Vice-President, in conjunction with the Secretary, or any Secretary, if more than one shall be appointed by the Board, or an Assistant Secretary, shall have power on behalf of the Corporation:

(a) to execute, affix the corporate seal manually or by facsimile to, acknowledge, verify and deliver any contracts, obligations, instruments and documents whatsoever in connection with its business including, without limiting the foregoing, any bonds, guarantees, undertakings, recognizances, powers of attorney or revocations of any powers of attorney, stipulations, policies of insurance, deeds, leases, mortgages, releases, satisfactions and agency agreements;

(b) to appoint, in writing, one or more persons for any or all of the purposes mentioned in the preceding paragraph (a), including affixing the seal of the Corporation."

This Power of Attorney is signed and sealed under and by the authority of Article III, Section 9 of the By-Laws of the UNITED STATES FIRE INSURANCE COMPANY as now in full force and effect and which provides as follows:

ARTICLE III., Section 9. Facsimile Signatures: "The signature of any officer authorized by the Corporation to sign any bonds, guarantees, undertakings, recognizances, stipulations, powers of attorney or revocations of any powers of attorney and policies of insurance issued by the Corporation may be printed facsimile, lithographed, or otherwise produced. . . . The Corporation may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Corporation, notwithstanding the fact that he may have ceased to be such at the time when such instruments shall be issued."

CERTIFICATE

State of New Jersey
County of Morris

I, the undersigned, Assistant Secretary of UNITED STATES FIRE INSURANCE COMPANY, DO HEREBY CERTIFY that the foregoing POWER OF ATTORNEY remains in full force and effect and has not been revoked and furthermore that the above quoted abstracts of Article IV. and Article III., Section 9. of the By-Laws of the Company are now in full force and effect.

In Testimony Whereof, I have hereunto subscribed my name and affixed the corporate seal of the said Company,
this _____ 2nd _____ day of July _____ 19 87

By John K. Stewart
Assistant Secretary
John K. Stewart

ORGANIZATION REPORT

MAR 23 1987

Full Name of the Company, Organization, or Individual
Petroleum Technical Services Company

Post Office Address (Box or Street Address)
3000 North Garfield Street, Suite 210, Midland, Texas 79705

Plan of Organization (State whether organization is a corporation, joint stock association, firm or partnership, or individual)
Sole Proprietorship

Purpose of Organization (State type of business in which engaged)
Oil & Gas Exploration & Production

If a reorganization, give name and address of previous organization.

If a foreign corporation, give (1) State where incorporated	(2) Name and post office address of state agent	(3) Date of permit to do business in state
Sole Proprietorship	None Assigned.	Being applied for.
Principal Officers or Partners (if partnership) NAME	TITLE	POST OFFICE ADDRESS
Don C. Bennett	Owner/Operator	3000 N. Garfield, #210 Midland, Texas 79705

DIRECTORS NAME	POST OFFICE ADDRESS
Sole Proprietorship	

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Don C. Bennett of the Petroleum Technical Services Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Don C. Bennett
 Signature

03-19-87
 Date

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Organization Report
 File One Copy
 Form No. 1

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

JUL 1 1987

O & G CONSERV. COMMISSION
800G2681

Bond Serial No. _____

That we: Roberts & Koch

of the County of Midland in the State of Texas

as principal, and The Travelers Indemnity Company

of Hartford, Connecticut

AUTHORIZED TO DO BUSINESS WITHIN THE STATE OF ARIZONA.

as surety, are held and firmly bound unto the State of Arizona and the Oil and Gas Conservation Commission, hereinafter referred to as the "Commission", in the penal sum of Twenty five thousand and No/100 (\$25,000.00) lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation are that, whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to-wit:

Blanket Bond

(May be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the Laws of this State and the rules, regulations and orders of the Commission, especially with reference to the requirements of A.R.S. § 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil and Gas Conservation Commission all notices and records required by said Commission, then in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, this obligation is void; otherwise it shall remain in full force and effect.

Whenever the principal shall be, and declared by the Oil and Gas Conservation Commission in violation of the Laws of this State and the rules, regulations and orders of the Commission, the surety shall promptly:

1. Remedy the violation by its own efforts, or
2. Obtain a bid or bids for submission to the Commission to remedy the violation, and upon determination by the Commission and the Surety of the lowest responsible bidder, arrange for a contract between such bidder and the Commission, and make available as work progresses sufficient funds to pay the cost of remedying the violation; but not exceeding, including other costs and damages for which the surety may be liable hereunder, the amount set forth in the first paragraph hereof.

Liability under this bond may not be terminated without written permission of this Commission.

WITNESS our hands and seals, this 8th day of June, 1987

Roberts & Koch

Charles E. Koch
Charles E. Koch, Partner

CANCELLED
5/13/96

WITNESS our hands and seals, this 8th day of June, 1987

The Travelers Indemnity Company

By: John W. Rahlfs, Attorney-in-fact

By: Gregory C. Lizanich

(Surety, Resident Arizona Agent
If issued in a state other than Arizona)

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved
Date 7-1-87
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: R. A. Ybarra

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Bond
File Two Copies
Form No. 2

Permit No. _____

The Travelers Indemnity Company
Hartford, Connecticut

If necessary, validation of this power of attorney is available at (203) 277-7839. Collect calls will be accepted.

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That THE TRAVELERS INDEMNITY COMPANY, a corporation of the State of Connecticut, does hereby make, constitute and appoint

John W. Rahlfs, Sarah Crawford, Frances H. Puckett, Kay Haberman, all of Midland, Texas, EACH

its true and lawful Attorney(s)-in-Fact, with full power and authority, for and on behalf of the Company as surety, to execute and deliver and affix the seal of the Company thereto, if a seal is required, bonds, undertakings, recognizances, consents of surety or other written obligations in the nature thereof, as follows:

Any and all bonds, undertakings, recognizances, consents of surety or other written obligations in the nature thereof not exceeding in amount Two Hundred and Fifty Thousand Dollars (\$250,000) in any single instance and to bind THE TRAVELERS INDEMNITY COMPANY thereby, and all of the acts of said Attorney(s)-in-Fact, pursuant to these presents, are hereby ratified and confirmed.

This appointment is made under and by authority of the following Resolutions adopted by the Board of Directors of THE TRAVELERS INDEMNITY COMPANY at a meeting duly called and held on the 1st day of November, 1985 which Resolutions are now in full force and effect:

VOTED: That the Chairman of the Board, the President, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Corporate Secretary or any Department Secretary may appoint attorneys-in-fact or agents with power and authority, as defined or limited in their respective powers of attorney, for and on behalf of the Company to execute and deliver, and affix the seal of the Company thereto, bonds, undertakings, recognizances, consents of surety or other written obligations in the nature thereof and any of said officers may remove any such attorney-in-fact or agent and revoke the power and authority given to him.

WILL: That any bond, undertaking, recognizance, consent of surety or written obligation in the nature thereof shall be valid and binding upon the Company when signed by the Chairman of the Board, the President, any Executive Vice President, any Senior Vice President, any Vice President or any Second Vice President and duly attested and sealed, if a seal is required, by the Corporate Secretary or any Department Secretary or any Assistant Corporate Secretary or any Assistant Department Secretary, or shall be valid and binding upon the Company when duly executed and sealed, if a seal is required, by a duly authorized attorney-in-fact or agent, pursuant to and within the limits of the authority granted by his or her power of attorney.

This power of attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of THE TRAVELERS INDEMNITY COMPANY at a meeting duly called and held on the 1st day of November, 1985:

VOTED: That the signature of any officer authorized by Resolutions of this Board and the Company seal may be affixed by facsimile to any power of attorney or special power of attorney or certification of either given for the execution of any bond, undertaking, recognizance or other written obligation in the nature thereof; such signature and seal, when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

This power of attorney revokes any and all powers of attorney dated prior to November 1, 1985.

IN WITNESS WHEREOF, THE TRAVELERS INDEMNITY COMPANY has caused these presents to be signed by its proper officer and its corporate seal to be hereunto affixed this 1st day of November 19 85.



THE TRAVELERS INDEMNITY COMPANY

By

D. L. Banta

Secretary, Surety

State of Connecticut, County of Hartford—ss:

On this 1st day of November in the year 1985 before me personally came D. L. Banta to me known, who, being by me duly sworn, did depose and say: that he resides in the State of Connecticut; that he is Secretary (Surety) of THE TRAVELERS INDEMNITY COMPANY, the corporation described in and which executed the above instrument; that he signed his name thereto by the above quoted authority; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal, and that it was so affixed by authority of his office under the by-laws of said corporation.



Gloria D. Seekins

Notary Public
My commission expires April 1, 1988

CERTIFICATION

I, Paul D. Tubach, Assistant Secretary (Surety) of THE TRAVELERS INDEMNITY COMPANY, certify that the foregoing power of attorney, and the above quoted Resolutions of the Board of Directors of November 1, 1985 have not been abridged or revoked and are now in full force and effect.

Signed and Sealed at Hartford, Connecticut, this 8th day of June 19 87 .



Paul D. Tubach

Assistant Secretary, Surety