SUBMIT IN PLICATE*

(Other instructions on reverse side)

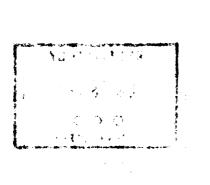
Form approved.
Budget Bureau No. 42-R1425.

UNITE			
DEPARTMENT	OF	THE	INTERIOR

	DEPARTMENT	OF THE IN	ITERIOF	₹		5. LEASE DESIGNATION AND SERIAL NO.
	GEOLO	NM-14206				
APPLICATIO	N FOR PERMIT	TO DRILL, D	EEPEN,	OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
b. TYPE OF WELL	RILL [DEEPEN [SINGLE	PLUG BA		7. UNIT AGREEMENT NAME
	WELL OTHER	RC-ENTRY A	ZONE	ZONE		8. FARM OR LEASE NAME
RALPH NIX OIL	, INC.		RE	CEIVED BY		B&B Federal 9. WELL NO.
3. ADDRESS OF OPERATOR						1
P. O. Box 440	, Artesia, New 1	Mexico 8821	DE DE	C -8 1986		10. FIELD AND POOL, OR WILDCAT
·- · · · · · · · · · · · · · · · · · ·				O. C. D.		Wildcat San Andres 11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
•			. - 16			Sec. 12-T19S-R26E
	AND DIRECTION FROM NEA					12. COUNTY OR PARISH 13. STATE
15. DISTANCE FROM PROP				X1CO.	17. NO. C	Eddy NM
LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dri	LINE, FT.	660'	160		тот	40
18. DISTANCE FROM PRO TO NEAREST WELL, I	POSED LOCATION* DRILLING, COMPLETED,		19. PROPOSEI		20. вота	RY OR CABLE TOOLS
OR APPLIED FOR, ON TE		- 1	280	0'	_ R€	everse Unit
3307.5' GL	emer Dr. KI, GK, etc.,					22. APPROX. DATE WORK WILL START* ASAP
23.	I	PROPOSED CASING	AND CEM	ENTING PROGE	RAM	·
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	ot s	ETTING DEPTH	1	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5#		326.76'	300 s	X CCIRCULATE
11" ['] 7 7/8"	8 5/8" 5 1/2"	24# 15.5#		2310.00' 2650.00'		SX Harcwhaff 300 sx "C" SX Class "C"
	e and intermedia SEE ATTA	CHED FOR: S B	SUPPLEME OP SKET(URFACE (NTAL DRILL	ING DATA	
RE-ENTRY	à	farchaeologi	cal repo	ort on file	J	Refer TO-1, NL
signed Laborated States	drill or deepen directiona	proposal is to deeper lly, give pertinent o	E	ck, give data on purface locations a	present produ	netive zone and proposed new productive land true vertical depths. Give blowout
APPROVED BY CONDITIONS OF APPROV	AL, IF ANY:	TITLE	S		<u>-</u>	DATE 12-486

*See Instructions On Reverse Side

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED



STATE OF NEW MEXICO

Form C-102 Revised 10-1-

P. O. BOX 2088 ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87

	All file	lances must be from	the outer boundaries	of the Section.		
Operator	TNG /	Le	930	_	-	Well No.
RALPH NIX OIL,			B & B Federa			11
Unit Letter Sec		South	26 East	County	,	
Actual Footage Location	ol Weil:		•			
	from the North	fine and		ret from the		line
Ground Level Elev.	Producing Formation	Po				ted Acreoger
3307.5'	San Andres		Wildcat	·	1_40_	Acre
2. If more than of interest and ro	renge dedicated to the ne lease is dedicate yalty). The lease of different of the contraction of the contra	d to the well, c	RECEIVED utline each and id DEC -8 198	GY entily the own 36 have the inte	ership thereof	(both as to workin
If answer is "r this form if nec No allowable w	No II answer is 'no,' list the owners an	'yes;' type of co	ions which have a	ctually been c	(by communitiz	ation, unitization
			!		CERT	FICATION
1980'	Bassett-Birney Oil Corp. WI NM-14206				toined herein Is to best of my Phowle	at the Information con we and complete to the dge and belief.
				Ro Po Pi Co Ro	alph Nix, James ident mesident alph Nix Oi to 1-24-86	
				S	shown on this plat notes of octual su under my supervise	
				Hec and	platered Professio Vor Land Surveyor	•
TO THE RESERVE THE PARTY OF THE				·		

12 11 C

SHAFFER MECHANICAL CONTROL GATES

(Patented)

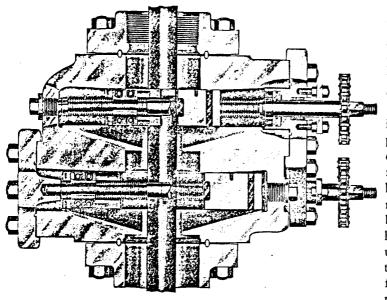


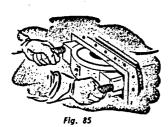
Fig. 84
Shaffer Type 45 Mechanical Double Control Gate—Sectional View

Shaffer Mechanical Control Gates are ideal for blowout protection on low-budget operations. No only will they close and hold against high we pressures, but their positive screw-thread drivwill safely hold these high well pressures in definitely after the rams are closed.

Shaffer Mechanical Control Gates are available in a wide range of sizes, as shown on the facin page, and are available in a choice of "Single or "Double" designs. In the "Double" design, the ram compartments are unitized into one compact body—the upper compartment equipped with rams for closing off around the drill string, the lower compartment equipped for closing off openhole. Or two separate "Single" Gates may be used, similarly equipped—and some operators us three "Singles," or a "Double" and a "Single for stripping couplings through the rams undespressure, or for closing off around "mixed strings.

IMPORTANT FEATURES

► Shaffer Mechanical Control Gates incorporate many of the features built into Shaffer Hydraulic Blowout



Preventers (see pages 4346 and 4347) . . . the Self-Draining Ram Compartments, the "Floating" Ram Design, the way well pressure is used to assist the sealing action, etc. By simply removing one end cover, the complete ram assembly can be removed for chang-

ing rams—a feature that insures maximum convenience when changing pipe sizes (See Fig. 85).

► A selection of "Single" and "Dual" Air Motor

Drives (write for details) is available for opening and closing the rams by remote control. Also, shafts with Universal Joints may be used for mounting hand wheels at a distance from the well head for added protection when operating the Gates mechanically.

► Type 39 Self-Centering Rams (see page 4351) are standard equipment for Shaffer Mechanical Control Gates. However, Type 60 Rams (see pages 4348 through 4350) may be installed as an extra-cost option (and may also be installed in Shaffer Mechanical Gates already in service).

Write for complete details on Shaffer Mechanical Control Gates

ORDERING INSTRUCTIONS

When ordering Shaffer Mechanical Control Gates, specify size and A.P.I. rating (see facing page). When ordering parts, give serial number of Gate. If flanges are ordered, give size, weight and thread (number and form) of casing, as well as A.P.I. flange specifications. When ordering rams, give outside diameter of pipe the rams are to close around.

When ordering for export or remote locations, an ample supply of extra ram rubbers should be ordered. Also, it is advisable to have extra sets of ram blocks with rubbers for the various strings of tubing, drill pipe and casing that will be run. All extra supplies of rubbers (whether or not on ram blocks) should be kept in a dark, dry location to prevent deterioration (especially important in the tropics).

Lists of Recommended Spare Parts are available on request for both domestic and export operations.

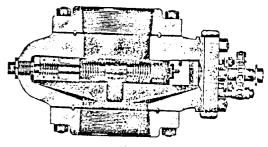


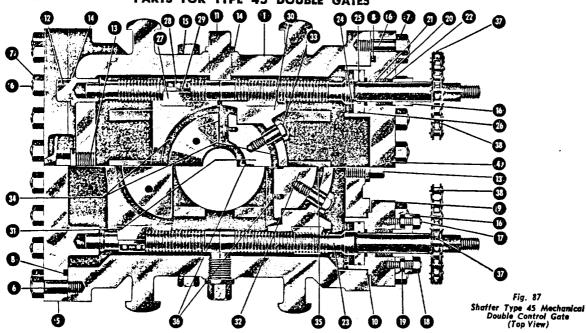
Fig. 86 Sectional View of Shaffer Type 45 Mechanical Single Control Gate



SHAFFER MECHANICAL CONTROL GATES

(Patented)

PARTS FOR TYPE 45 DOUBLE GATES



Part No.	No. Req'd.	NAME OF PART	Part No.	No. Req'd.	NAME OF PART	Part No.	No. Req'd.	NAME OF PART
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Varies Varies 1 Varies Varies 2 2 4 2 2 8 4 4 8	Body Body Flange Stud (Not Shown) Body Flange Stud Nut (Not Shown) End Cover—Front End Cover—Rear End Cover & Thrust Plate Stud End Cover & Thrust Plate Stud Nut End Cover & Thrust Plate Stud Nut End Cover Hydraulic Packing Gasket Thrust Plate Thrust Plate Gasket Side Plug End Bearing Plug End Bearing Plug End & Side Plug Copper-Asbestoe Gasket Washout Plug' Stuffing Box Gland Stuffing Box Gland Stuffing Box Gland	18 19 20 21 22 23 24 25 26 27 28 29 30 31	8 8 4 Sets 4 4 4 4 R.H. &4L.H. 32 2 Sets 1 Set 1 Set	Stuffing Box Gland Stud Nut Stuffing Box Gland Jam Nut Stuffing Box Chevron Packing Bronze Packing Ring—Lower Bronze Packing Ring—Upper Operating Screw Thrust Bearing Plate Thrust Bearing Plate Inner "O" Ring Thrust Bearing Plate Outer "O" Ring Bronze Half Nut Ram Clip Ram Clip Cap Screw Ram Block Holder Ram Block—Pipe Ram Block—Complete Shut-Off	33 34 35 36 37 38 39 40 41 42 43 44	8 1 Set 1 Set 1 Set 1 Set 1 Set 1 Set 2 1 1 1 1 2 1 4	Ram Block Retracting Screw Ram Rubber—Pipe Ram Rubber—Complete Shut-Off Ram Rubber Retaining Screw Sprocket Sprocket Chain Sprocket Chain Tightener—Upper (Not Shown) Sprocket Chain Tightener—Lower (Not Shown) Sprocket Chain Tightener Cap'Screw and Washer—Upper (Not Shown) Sprocket Chain Tightener Cap Screw and Washer—Lightener Cap Screw and Washer—Lower (Not Shown) Sprocket Chain Guard (Not Shown) Sprocket Chain Guard Cap Screw with Washer (Not Shown)

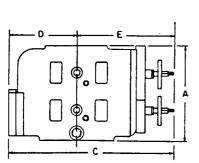


Fig. 88
Dimensional Elevation—
Shafter Type 45 Mechanical Double Control Gate

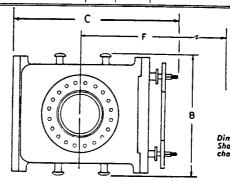


Fig. 89 Dimensional Plan — Shafter Type 45 Mechanical Double Control Gate

DIMENSIONAL AND ENGINEERING DATA ON SHAFFER TYPE 45 MECHANICAL DOUBLE CONTROL GATES

Size	Max. Service Pressure Rating. PSI	Test Pressure, PSI	Vertical Bore	Approx. Weight, Pounds	Ram Size	A Height	B Width	C Length	D Center To Rear	E Center To Front	F Max. Distance Needed To Change Rams
6"	3,000	6,000	7 ☆*	3,400	C.S.O. Thru 5" O.D.	24%	2934"	41"	171/4"	231/4"	59%
8*	3,000	6,000	9"	4,150	C.S.O. Thru 7" O.D.	251/4"	30"	4514"	1914"	251/4"	65%"
10"	3,000	6,000	11"	4,900	C.S.O. Thru 85% O.D.	2734"	311/2"	48"	211/4"	26%*	701/4"
10"	5,000	10,000	11"	8,925	C.S.O. Thru 854" O.D.	36"	37*	511/5"	23*	2814"	751/4"
12"	3,000	6,000	1256"	5,870	C.S.O. Thru 10%" O.D.	281/4"	331/4"	5234*	231/4"	2914"	77*
16"	2,000	3,000	151/4"	8,025	C.S.O. Thru 131/4" O.D.	313/2"	361/6"	54%"	24%	30"	80*

SUPPLEMENTAL DRILLING DATA

RALPH NIX B&B FEDERAL WELL NO. 1

1. SURFACE FORMATION: Recent.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Queen 676' Grayburg 1136' San Andres 1459

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Oil

San Andres

4. PROPOSED CASING AND CEMENTING PROGRAM:

Hole	Casing	Weight	Depth	Cementing
17 1/2" 11"	13 3/8" 8 5/8"	54.5# 24#	326.76' 2310.00'	300 sx Class "C" 900 sx Hal. Lite & 300 sx Class "C"

ABOVE CASING ALREADY IN HOLE

7 7/8" 5 1/2" 15.5# 2650.00' 250 sx Class "C"

5. PRESSURE CONTROL EQUIPMENT:

SEE ATTACHED DIAGRAMS.

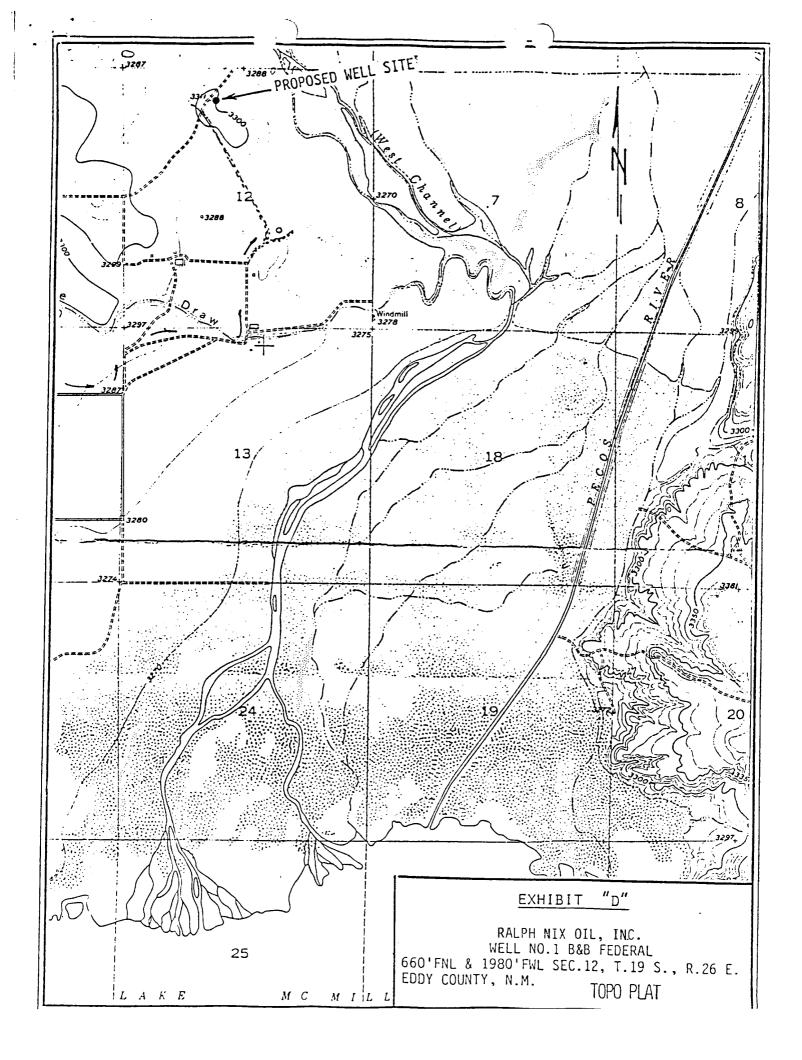
6. CIRCULATING MEDIUM:

Surface to 2300 feet: Fresh water.

2300 feet to 2800 feet: At 2300' displace hole with 2% KCL water before cleaning out open hole 2310' to 2800'.

7. AUXILIARY EQUIPMENT:

Reverse drilling unit, 8-4 1/2: drill collars, 2 7/8" EUE 8RT J-55 work string (2800') and tools.



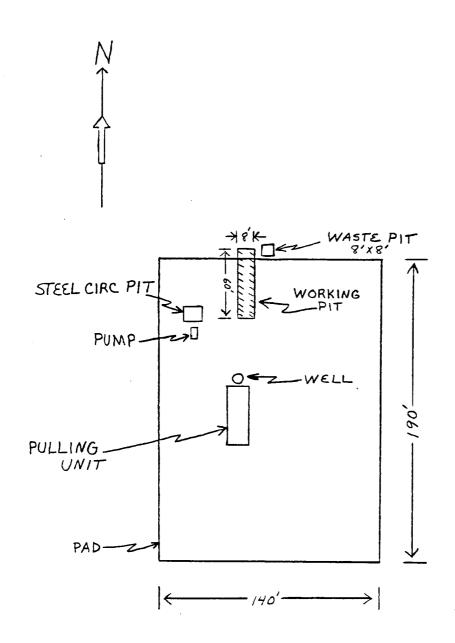


EXHIBIT "C"

RALPH NIX OIL, INC. B & B FEDERAL NO. 1

660' FNL & 1980' FWL Sec. 12, T19S-R26E, NMPM EDDY COUNTY, N.M. SCALE: None

Layout for Pulling Unit & Reverse Drilling Equipment

RALPH NIX-B&B FEDERAL NO. 1 RECOMMENDED RE-ENTRY PROCEDURE

SAN ANDRES COMPLETION

- 1. Dig out cellar and weld on 8 5/8" bell collar.
- 2. Install 8 5/8" x 5 1/2" Larkin Figure 75 casing head (or equivalent).
- 3. Install adapter flange and 10"-900 BOP with 2 7/8" pipe rams top, blind rams on bottom.
- 4. Set guy line anchors.
- 5. Move in pulling unit, reverse drilling unit, 8 4 1/2" drill collars, 2 7/8" EUE 8RT J-55 work string (2800') and tools.
- 6. Drill out cement plugs in 8 5/8" casing to 2300' with fresh water. Plugs reported to be :

2 sx 0-50' 35 sx 277-377' 50 sx 2440-2360 - tagged @ 2240'

- 7. At 2300', displace hole with 2% KCL water before cleaning out open hole 2310' to 2800'.
- 8. Circulate hole clean, pull out of hole, stand back drill collars.
- 9. Run in hole with work string open ended to 2800', circulate hole.
- 10. Spot 50 sx Class "C" with 2% CaCl, 2800' to 2650' mixed 14.8 #/gallon.
- 11. Pull out of hole. WOC 12 hrs.
- 12. Run in hole with drill collars and bit to top of cement, dress plug to 2650' minimum or until hard cement is encountered.
- 13. Circulate hole clean with 2% KCL water, pull out of hole, lay down tubing, drill collars, and bit. Release reverse unit.
- 14. Run Schlumberger TDT log 2600' to 1200'.
- 15. Rig up casing tools, change pipe rams in BOP to 5 1/2", clean 5 1/2" casing threads.
- 16. Run 5 1/2" 15.50 #/ft. J-55 casing to 2650'. "Ruff coat" casing 2300' to 2600' and centralize each joint 2300' to 2600', centralize every joint 1800' to 2200'. Run guide shoe on bottom and float collar one joint above shoe. Dope both collars and pins while running casing.
- 17. Circulate hole.
- 18. Cement 5 1/2" casing with 250 sx Class "C" w/2% CaCl mixed 14.8 #/gallon, use top plug only displace with 2% KCL water. WOC 12 hours. Set slips, cut off, install tubing head.
- 19. Run temperature survey (est. cmt. top 1000'±), test casing to 1500 psig.
- 20. Run gamma ray casing collar log.
- 21. Perforate 2502' to 2512' per Density-Neutron log depths with 4 jets per foot at 90 degree phasing using 4" cased hole gun.
- 22. Run completion tubing 2 3/8" EUE 8RT J-55 with seating nipple open ended to 2600'±. Land tubing, nipple up, Larkin Type "R" tubing head (or equivalent) and christmas tree.

- 23. Swab test well to recover all load fluid in casing.
- 24. Swab for production test.
- 25. Displace hole with oil, pump acid to spot acidize with 2500 gallons 15% NEFE HCL displace with oil. Hold maximum treating pressure to 500 psig on acid.
- 26. Swab test well; record hourly fluid levels, fluid recovery, oil-cut, and number of swab runs.
- 27. Re-acidize with 5,000 gallons \pm , 15% NEFE acid as indicated by swab test.
- 28. Recover load water immediately by swabbing.
- 29. Install pump and rods and place on production.
- 30. Install tank battery.