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	OGICAL SURVE	- · ·		5. LEASE DESIGNATIO	•
				N.M. 10195	
APPLICATION FOR PERMIT	10 DRILL, L	PEPEN, OR PLUG	RACK	N/A	E OE CHIEF NAME
DRILL [X	DEEPEN [PLUG BA	ACK []	7. UNIT AGREEMENT	NAME
OIL WY GAS [T]		BINGLE TO MULT	Here [m]	Undesignat	
OIL GAN WELL OTHER 2. NAME OF OPERATOR		ZONE ZONE		S. PARM OR LEANE N.	
Gifford, Mitchell & Wise	enbaker			Spotted Tail	rederal
3. ADDRESS OF OPERATOR				1	
1280 Midland National Ba		lidland, Texas	7 97 01	10, FIELD AND POOL,	OR WILLCAT
At Surrace		n any State requirements.*)		Wildcat	
1980' FNL & 660' FEL of	Sec tion			11. SEC., T., R., M., OR AND SURVEY OR	HLK.
At proposed prod. Zone				Sec. 31, T25	-S R36-F
14. DISTANCE IN MILES AND DIRECTION FROM NE				12. COUNTY OR PARIS.	-
6 miles Southwest of Ja	l, New Mexico		2	Lea	New Mexico
LOCATION TO NEAREST PROPERTY OF LEASE LINE FOR	6 60'	16. NO. OF ACRES IN LEASE	17. NO.	OF ACRES ASSIGNED	
(Also to nearest drig, unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION®	000	640 19. Proposeb perio		40	
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	N/A	3300'		Otary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.)		The state of the s		22. APPROX. DATE W	ORK WILL START
GR = 3024 ¹				June 28,	1 978
40.	PROPOSED CASIN	G AND CEMENTING PROG	RAM		
SIZE OF HOLE SIZE OF CASING	WEIGHT PER FO		1	QUANTITY OF CEMP	INT
12 1/4" 8 5/8" 7 7/8" 5 1/2"	24#	1400'		750 sacks	CIRCULATE
7 7/8" 5 1/2"	14#	3300'		450 sacks	
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SEE ATTACHED FOR			W	PPROVAL TO FLARE (HILE DRILLING AND TI	GRANTED
CONDITIONS OF APPROVAL			***	HEE DIGEETING AND IT	-STING."
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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If zone. If proposal is to drill or depond direction	proposal is to deepe	n or plug back, give data on	nrought need	uotino sono est esse	
zone. If proposal is to drill or deepen direction preventer program, if any.	ally, give pertinent	data on subsurface locations .	and measured	d and true vertical dept	hs. Give blowout
24.					
SIGNED COLLECTION	TITI	Production	Clerk	2.1	11/20
				DATE 1	
,	The same of				
PERMIT NO.	Commercial	APPROVAL DATE		and the second s	
APPROVED BY	TITI	E			
CONDITIONS OF APPROVAL, IF ANY :	• 1		APPR	DVED	

*See Instructions On Reverse Side

GIFFOR Unit Letter H Actual Footage Loca	D. MITCHELL &	& WISENBAKER	Lease Coottal Tell		Well No.
Н	OCCUPIT.			, Federal	1
Actual Footage Lora	31	Township 35 South	Rumge 36 East	County	
1980	tion of Well: feet from the	north line and	660 fe	oac+	
Ground Level Elev: 3024	Producing For	mation	P001	ret from the east	line Dedicated Acreage:
	—	<u>-</u>	Wildcat		40 Acres
	n one lease is			or hachure marks on the	plat below.
3. If more than dated by co		ifferent ownership is denitization, force-poolingswer is "yes," type of	g.etc?	have the interests of a	all owners been consoli-
If answer is this form if No allowable	"no," list the necessary.)	owners and tract descri	ptions which have a	aanaalid-t 1 0	ed. (Use reverse side of unitization, unitization, pproved by the Commis-
	l l		<u> </u>	30 29	CERTIFICATION
R-36-E			0861	I hereby cer tained herei best of my k Name Position Product Company	tify that the information connistrue and complete to the nowledge and belief. Lion Clerk Mitchell & Wisenbal
	 			shown on this notes of acts under my sup is true and knowledge an June Date Surveyed Gary	21, 1978 N. Haner esstonal Engineer
	!	T-25-S		16.	1) 6

GTFFORD, MITCHELL & WISENBAKER #1 STANDING BEAR FEDERAL and #1 SPOTTED TAIL PEDERAL

1. Geologic name of the surface formation.

Quaternary Alluvium

2. Estimated tops of important geologic markers.

Rustler	1,000'
Salado	1,600'
Tansill	3,150
Yates	3,3501

3. Estimated depths at which anticipated water, oil, or other mineral-bearing formations are expected to be encountered.

Water - Ground water anticipated 200 - 300' Oil - 3,250'

4. Proposed Casing Program:

String	Size, Weight, Grade	Minimum Condition	Depth Interval
Surface	8-5/8" /24/ H~40	Class II	0-1400'
Production	5\racksquare /11-40	Class II	0-3300'

Casing strings run will be at least as strong as string shown. Actual pipe run may be different depending on casing available.

- 5. Minimum specifications for pressure control equipment:
 - a) Casinghead Equipment

Casinghead: 8-5/8" STC x 4-1/2" 2000 psi WP screwed

Tubinghead: 4-1/2" x 2-3/8" 2000 psi screwed

Tree: 2-3/8" 2000 psi WP screwed

b) Blowout Preventers

Refer to attached drawing. The BOP will be installed after the 8-5/8 surface casing is set and will be no smaller than 10" API nor less than 2000 psi WP.

c) BOP Control Unit

Remotely located, hydraulically operated.

d) Testing

When installed on the 8-5/8" casing, the BOP will be tested to a low pressure (200-300 psi) and to at least 1500 psi. Thereafter, it will

#1 Standing r Federal and #1 Spotted Tail

be tested approximately weekly to 1500 psi. An operational test of the BOP will be performed each round trip but no more than once a day. The pipe ram will be closed around the drill pipe, and the blind rams will be closed while the pipe is out of the hole.

6. Type and anticipated characteristics of drilling fluid:

Surface hole will be drilled with a minimum weight fresh water spud mud compatible with operating conditions.

Production hole will be drilled with brine water. Depending on hole conditions and DST and core requirements, the system may be mudded up as follows:

> Type: Saturated Brine Weight: 9-10 ppg Funnel Viscosity: 28-35 sec. Water Loss: 10-30 cc. Solids: Minimum plì: 10.5+

Not less than 75 barrels of fluid will be in the pits.

- 7. Auxiliary Control Equipment:
 - a) Lower Kelly Cock
 - b) Full opening ball type safety valve to fit each size of drill pipe on the rig floor on trips.
- Testing, logging, and coring program to be followed:

0 - T.D.: Gamma Ray, Sonic, FDC-CNL, and DLL or DIL 3250-3350: Possible 2DST's depending on shows 3250-3300: Approximate 50' core in pay zone

- No abnormal temperatures or pressures are anticipated. The pressure can be controlled by the hydrostatic head of drilling fluid in the hole. Hydrogen sulfide gas is expected to be minimal.
- 10. It is anticipated that the drilling operations will begin

SURFACE USE PLAN

Gifford, Mitchell & Wisenbaker - Exploratory Wells

- No. 1 Standing Bear Federal Lease No. M.N. 6727 660' FNL and 660' FWL of Section 5, 26S, 36E
- No. 1 Spotted Tail Federal Lease No. N.M. 10195 1,980' FNL and 660 FEL, Section 31, 25S, 36E Lea County, New Mexico
- EXISTING ROADS Detailed map showing drillsite location in relation to a town or known point and all existing roads within three miles of the drillsite are shown on Exhibit "A".
 - From Jal, go southwesterly on paved road 3 miles to Bennett; continue on improved road approximately 1-1/2 miles to a graded road going westerly. Proceed westerly on graded road 4 miles, then Northerly 1 mile to drillsites.
- 2. PLANNED ROADS It is planned to construct approximately 9,000' of new road as shown on Exhibit "A" of which 4,500' will serve Standing Bear Federal #1 and 4,500' will serve Spotted Tail Federal #1. The existing access road will be improved by grading, widening and adding caliche where necessary. Caliche will be hauled from a pit near the Anthony ranch house located on private lands.
 - 1). Width of the new road to be constructed will be approximately 16 feet.
 - 2) No grade change will be made in any part of the existing access road or the new road to be constructed in excess of 5 percent.
 - 3) No turnouts will be necessary.
 - 4) No special drainage features will be necessary.
 - 5) No culverts will be required.
 - 6) Caliche will be used only on a portion of the road.
 - 7) No cattleguards will be required.
 - The proposed new road is center-line flagged.
- LOCATION OF EXISTING WELLS WITHIN TWO MILE RADIUS -
 - 1) Water wells There are windmills located approximately one mile northeast of each drillsite and a water well at the Anthony ranch house approximately - 2 miles southeast of the drillsite.
 - 2) Abandoned wells Several dry holes are shown on Exhibit "A" within 2 miles of drillsite.

- 3) Temporarily abandoned wells Rone
- 4) Disposal wells None
- 5) Drilling wells There is a well currently drilling approximately 3/4 of a mile South of the Standing Bear proposed location.
- 6) Producing wells None
- 7) Shut-In wells None
- 8) Injection wells None
- 9) Monitoring or observation wells for other resources None
- 4. TANK BATTERIES, PRODUCTION FACILITIES AND LEASE PIPELINES -
 - A. There are no tank batteries, production facilities or pipelines within one mile of the location controlled by lessee.
 - B. In the event of production, new facilities are shown on Exhibit "B".
 - 1) Proposed location and attendant lines by flagging if off of well pad shown on Exhibit "B".
 - 2) Dimensions of facilities are shown on Exhibit "B".
 - 3) Production facilities will be constructed on drillsite pad using caliche surface.
 - 4) Equipment and pit will be fenced and flagged to protect livestock and wildlife, if necessary.
 - C. Rehabilitation will be done on any disturbed areas no longer needed for operations after completion of the production facilities. This will consist of reshaping the existing surface and seeding as specified.
- 5. LOCATION AND TYPE OF WATER SUPPLY -
 - A. Water will be pumped or hauled from an existing water well located approximately 2 miles southeast of drillsite at the Anthony Ranch. In the event brine water is used, it will be hauled by truck from a source outside the area. In the event water is pumped, the pipeline will be laid on the surface of the ground along the access road to the drillsite.
 - B. The pipeline is shown on Exhibit "A" from the water source to the drillsite.
 - C. No water well will be drilled.
- 6. SOURCE OF CONSTRUCTION MATERIALS -
 - A. Caliche will be obtained from a privately owned pit northeast of the Anthony ranch house as shown on Exhibit "A".

- B. No construction materials will be used from Federal or Indian lands.
- Caliche secured from private sources will be used where needed on the road and drillsite.
- D. All access roads are shown on Exhibit "A",

7. WASTE DISPOSAL -

- A. Drill cuttings will be disposed of in the reserve pit.
- B. Drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry.
- C. Trash, waste paper, garbage and junk will be burned or buried with a minimum of 24" cover. Waste material will be contained to prevent scattering by wind prior to ultimate disposal.
- D. Any produced water will be contained in tanks and be disposed of in an approved manner. Oil produced will be stored in tanks until sold, at which time it will be hauled from location.
- E. Current laws and regulations pertaining to disposal of human waste will be complied with.
- F. If productive, maintenance waste will be placed in special containers and buried or hauled away periodically.
- 8. ANCILIARY FACILITIES No camps, airstrips, et cetera, will be constructed.

9. WELL SITE LAYOUT -

- A. Refer to Exhibit "B" for well site layout.
- B. Dimensions may vary slightly depending on size of drilling rig available.
- C. Terrain at the well site is very flat as shown on Exhibit "B".
- D. The pad will be topped with material obtained from the reserve pit or material hauled in from private property traversed by the access road.
- E. The reserve pit will be approximately 125' x 150' top width.

10. RESTORATION OF SURFACE -

- 1) At the time of completion and abandonment of the well, the pits will be backfilled and the entire disturbed area will be sloped to coincide with the adjacent undisturbed area. The top soil will be distributed over the entire disturbed area. Prior to leaving the drillsite upon rig move out and before reshaping any pit that is to remain open for drying will be fenced until backfilling and reshaping can be done.
- 2) When well is abandoned the new road will be rehabilitated as per BLM recommendations.

- 3) Any rehabilitation of the drill pad will comply with BLM specifications.
- 4) Any oil on pits will be removed or otherwise disposed of to USGS and BLM approval.
- 5) Rehabilitation operations will be completed as soon as practical after abandonment of the well and no later than the Fall after abandonment.

11. OTHER INFORMATION -

- A. Terrain Flat prairie.
- B. Soil Sandy.
- C. Sparse vegetation Mesquite and some native grasses.
- D. There are no buildings, ponds, water wells, archeological, historical or cultural sites in the immediate area.
- E. Surface use is grazing.
- F. Effect on Environment Drillsite, which is in nearly flat semi-arid, desert country, is in a low environmental risk area. The total effect of drilling and producing in this area would be minimal. No known archeological, historical, or cultural sites exist in the drill or road areas.
- G. Surface ownership the drillsite and new access road is located on private lands owned by Frank Authory.
- H. Open Pits All unattended pits containing mud or other liquids will be fenced.
- I. Well sign Sign identifying and locating well will be maintained at drillsite commencing with the spudding of the well.
- 12. OPERATOR'S REPRESENTATIVE Field representative who can be contacted concerning compliance of this Surface Use Plan is:

Jim Salners
1280 Midland National Bank Tower
Midland, TX 79701
Office Phone: (915) 682-6282
Home Phone: (915) 683-8927

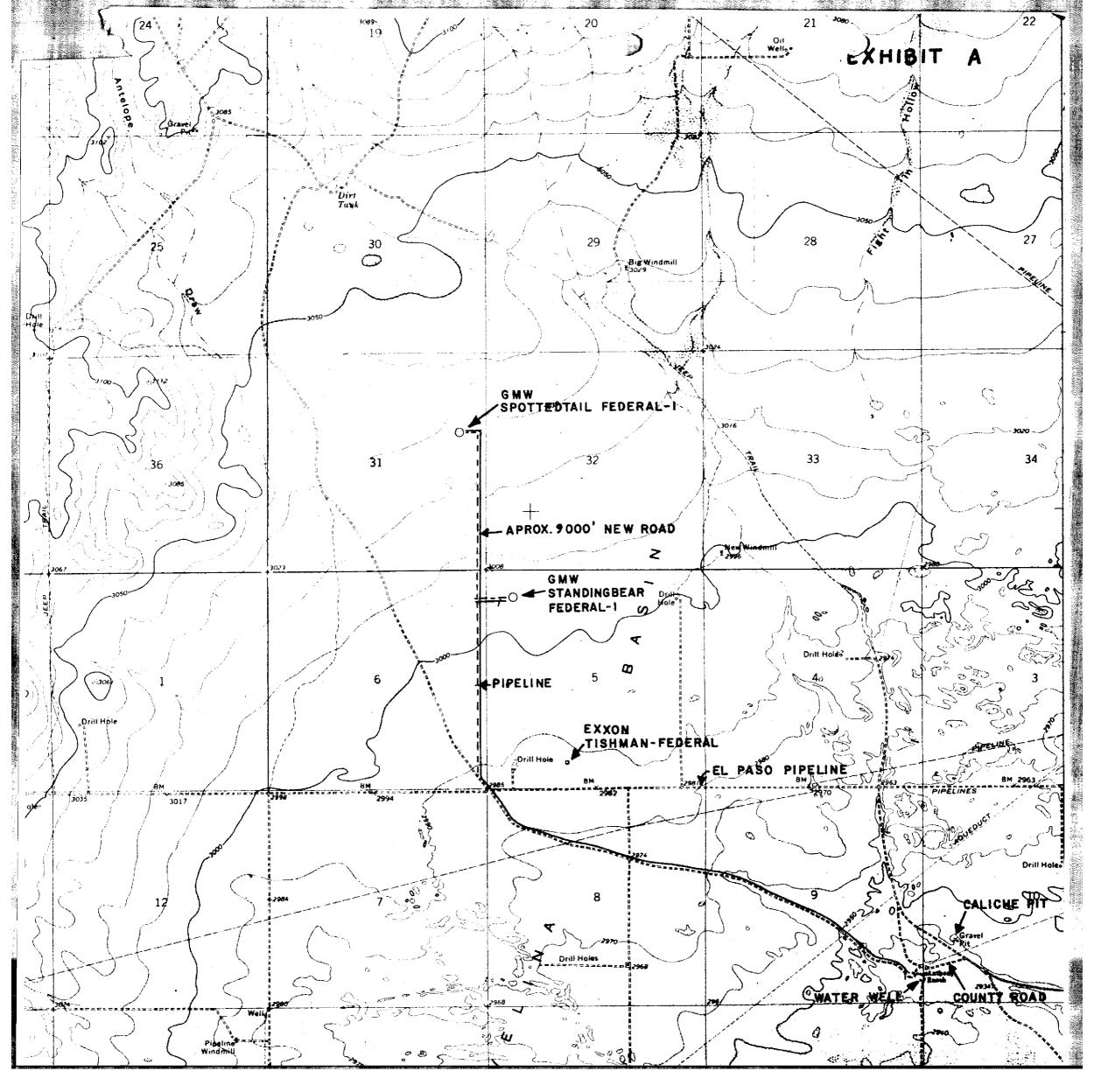
13. CERTIFICATION - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by

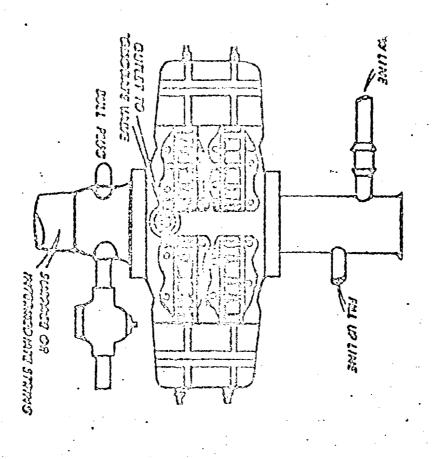
Gifford, Mitchell & Wisenbaker and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. A copy of this plan will be posted at the well site during the drilling of the well for reference by all contractors and subcontractors.

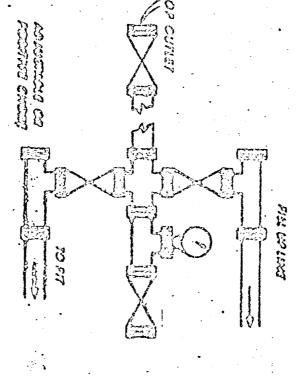
GIFFORD, MITCHELL & WISENBAKER

Date 6/21/78

Joe N. Gifford







DOW VALVED AND ALL WORKING PITTINGS SHOULD BE SE COLD

ALL COLTS TO BE INSTALLED AND TIGHT.

AFTER NIPPLING UP TEST RAMS AND PRESSURE UP TO 1500 ALL VALVES TO DE 3000 W.P. OR DETTUR.

FOR 15 MINUTES AND CHECK FOR POSSIBLE LEAKS.
ALL CREW MEMBERS TO BE FAMILIAR WITH DOP AND ACCURALATORS.,

KEEP HOLE FULL ON TRIPS.

USE ORLY FLANGE TYPE FITTINGS.
RECHECK EDLTS FOR TIGHTNESS BEFORE 5000 FT. OR ENTERING PRODUCTION RONDS.

אאפע סאובעבעדבה - סאורר פופד אאפי.

WHEN RUNNING CASING USE, BOTTOM PREVENTER DUNO RAME

CHARACHE DE CATROLO MOTTO

U. S. Geological Survey

HOBBS DISTRICT

Gifford, Mitchell & Wisenbaker
No. 1 Spotted Tail Federal
SE¹/₄NE¹/₄
Lea County, New Mexico
Above Data Required on Well Sign

CONDITIONS OF APPROVAL

- 1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.
- 2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.
- 3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatering injuries or loss of life.
- 4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plugback work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.
- 5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
- 6. Operator will provide the dirt contractor with a copy of the enclosed Bureau of Land Management "Standard Requirements for all Drilling in Relation to Oil and Gas Activities in the Roswell Distrct" prior to commencing construction of road, pad, or other associated developments.
- 7. In the event the oil or gas test results in a dry hole, the drill pad and access road will be ripped in accordance with "BLM Roswell District's Ripping Recommendations for Caliche or Compacted Drill Pads and Access Roads". (Reseeding of the affected areas may be required at the discretion of the BLM authorized officer).
 - All ripped surfaces are to be protected from vehicular travel by constructing a dead-end ditch and earthen barricade at the entrance to these ripped areas. The barricade is to be ronstructed using spoil material from the ditch and should be of sufficient magnitude to discourage vehicle entry.
- 8. All above ground structures, not subject to applicable conservation and safety requirements, shall be painted to blend with the natural surroundings unless alternate colors for specific equipment are requested and approved. The paint used should be a nonglare, nonreflective, flat, or semi gloss that simulates Fed. Stand. No. 595, color 30318.
- 9. Minimum required fill of cement behind the 5-1/2" casing is to the base of the salt section.

COUNTY LEA SOID WI	- ldcat		C Copyrighted	I Reproduction Poly
OPR GIFFORD, MITCHELL & WI			API 30-02	25-26010
NO 1 HAST Spotted Tail			MAP	
Sec 31, T25S R35E			(DORD	
1980' FNL, 660' IEL of	Sec		9-5-1	<u> 3 NM</u>
5 mi SW/Jal		PD 7-8-78	3 CMP 8-24-	-78
CSC	WILL CLASS:	INIT WE FIL	WFD ELEV	L & 1
8.5/8" at 1416 " w/755 ex	FORMATION	DATUM	TORMATION	{)A
$5.1/2$ " at 3336 ° w/4 \circ 0 sx				
	ļ · · · · · ·			
			PBD 3 333	
IP (Yates) Parfs 3232-3320 based on 24 hr test. GOR N		- + 38 BW	. Pot	

CONTR	Cordoba	OPRSELEN	30241	GL	PD 3300' RT

7-18-78	F.R. 7-10-78 TD 3336'; MORT
	No Cores or DST's
7-24-78	TD 3336'; PBD 3333'; Recg Ld
	Perf (Yates) 3232-3324° ,, 2 shots
	(overall) Acid (3232-3324') 2200 gals
	Frac (3232-3324') 30,000 gals + 50,000# sd
8-1-78	3D 3336; PBD 3333; Recg Ld
9-25-78	TD 3336'; PBD 3333'; Complete
9-30-78	Yates Discovery COMPLETION ISSUED

9-5-13 NM IC 30-025-70239-78