### M. O. C. C. COPRUBMIT IN TRIPI

(Other instruction. .n reverse side)

Form approved. Budget Bureau No. 42-R1425.

# UNITED STATES DEPARTMENT OF THE INTERIOR

	<i>*E-/ -</i>	0/5-	-12	09
5.	LEASE	DESIGNATION	AND SERIA	L NO.

	OLOLO	GICAL SURVE	<b>= Y</b>			LC - 028	0/9 <b>3-a</b>
APPLICATION	N FOR PERMIT	TO DRILL, D	DEEPEN	N, OR PLUG	BACK	6. IF INDIAN, ALLO	TTEE OR TRIBE NAME
la. TYPE OF WORK	ILL 🕮	DEEPEN [		PLUG BA		7. UNIT AGREEMEN	T NAME
b. TYPE OF WELL OIL XX G. WELL XX	AS OTHER		SING		IPLE XX	8. FARM OR LEASE	NAME
WELL LAN W 2. NAME OF OPERATOR	VELL OTHER		ZUNE	ZONE .	CAN	Burch "A"	
General Ameri	ican Oil Company	y of Texas				9. WELL NO.	
3. ADDRESS OF OPERATOR		Nov. Movid	• 002	r c		34	
	LOCO Hills Exercise Location clearly and					10. FIELD AND POO	I, OR WILDCAT Jackson (2-C)
At surface	FSL and 2970'				1 V E	11. SEC., T., R., M.,	
At proposed prod. zon		rer sec	. 19,			I.	-17S, R-30E
4. DISTANCE IN MILES	AND DIRECTION FROM NEA			APR 7	1977	12. COUNTY OR PAR	ISH 13. STATE
	1-1/2 Miles	West of Loc				Eddy	New Mexi
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drig	T LINE, FT. g. unit line, if any)	2970'		640 HTESIA.	DFFICE	of acres assigned this well 40	
18. DISTANCE FROM PROF TO NUAREST WELL, D	RILLING, COMPLETED,	750'	i	3600 <b>'</b>		Rotary	
OR APPLIED FOR, ON TH		700	<u> </u>				WORK WILL START
,,,,	,	3629' GR				March 15	
3.	]	PROPOSED CASIN	IG AND C	EMENTING PROGI	RAM	<del></del>	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	oor	SETTING DEPTH	1	- QUANTITY OF CE	MENT
12-1/4"	8-5/8"	21#				Cinculata	
16 173	0 0/0	24#		450		Circulate	
7-7/8"	5-1/2" to drill this w	14#	' and	3600	the Gra	350 sack <b>s</b>	n Andres.
7-7/8"  We propose to the state of the state	5-1/2" to drill this w	14# ell to 3600 ty will be native	acidiz	3600  complete in  ed or sand f  ill be used,	raced.  and ap	350 sacks  yburg and Sa  proximately og.  this well.	100' from ECEIVE
7-7/8"  We propose to All zones income Mud Program:  A 10" 3000#  N ABOVE SPACE DESCRIBE one. If proposal is to reventer program, if an	5-1/2"  to drill this we dicating porosi  Water and  T.D. we will to blowout prevent  E PROPOSED PROGRAM: If drill or deepen directions	14# ell to 3600 ty will be native mud up to geter will be	mud wet the	3600  complete in ed or sand fill be used, hole in shain the drill	raced.  and ap pe to 1 ing of	350 sacks  yburg and Sa  proximately og. R  this well. F  U.S. GE ARTES	ECEIVE EB 15 1977 OLOGICAL SURV. A, NEW MEXICO
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We propose to All zones income Mud Program:  All 3000#  All 3000#  A Note Space Describe one. If proposal is to preventer program, if any and all all all all all all all all all al	5-1/2"  to drill this we dicating porosi  Water and T.D. we will to blowout prevent  E PROPOSED PROGRAM: If drill or deepen directions  Cal Hawkers  Tral or State office use)	ell to 3600 ty will be native mud up to go ter will be proposal is to deep ally, give pertinent	mud wet the used	3600  complete in ed or sand fill be used, hole in sha in the drill  g back, give data on subsurface locations	raced.  and ap pe to 1 ing of	350 sacks  yburg and Sa  proximately og.  this well. F  U.S. GE  ARTES  ductive zone and projed and true vertical delay	EB 15 1977  OLOGICAL SURVA  NEW MEXICO  Coosed new productive prod
We propose to All zones income Mud Program:  All 3000#  All 3000#  A Note Space Describe one. If proposal is to preventer program, if any and all all all all all all all all all al	to drill this we dicating porosi Water and T.D. we will be blowout prevent drill or deepen directions y.	14# ell to 3600 ty will be native mud up to geter will be	mud wet the used	and or sand for sand sand sand sand sand sand sand sand	raced.  and ap pe to 1 ing of	350 sacks  yburg and Sa  proximately og.  this well. F  U.S. GE  ARTES  ductive zone and projed and true vertical delay	EB 15 1977  OLOGICAL SURVA  NEW MEXICO  Coosed new productive prod

\*See Instructions On Reverse Side

EXPIRES \_

## EW MEXICO OIL CONSERVATION COMMISSION

3640

WELL LOCATION AND ACREAGE DEDICATION PLAT Supersedes C-128 Effective 1-1-65 All distances must be from the outer boundaries of the Section. Operator I.egse Well No. GENERAL AMERICAN OIL COMPANY OF TEXAS Burch H **}**−34 Unit Letter Section Township Romae County 17 South 30 East Eddy Actual Footage Location of Well: 1650 South 2970 feet from the line and feet from the Ground Level Elev. Producing Formation
Grayburg & San Andres <sup>Pogl</sup>Grayburg-Jackson Dedigated Acreage: 3629.0 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? ☐ No If answer is "yes," type of consolidation If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Lendell Hawkins Position Engineer General American Oil Co. of Tex February 9, 1977 I hemby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or ler my supervision, and that the same 2970 is true and correct to the best Date Surveyed February 9, 1977 Registered Professional Engine and/or Land Surveyor

1320 1650

1980, 2310

2000

1500

1000

50Q

#### DRILLING PROGNOSIS

- I. <u>OBJECTIVE</u>: Drill 4 infill wells in the Grayburg Jackson Field, Eddy County, New Mexico. These wells will continue the infill pattern on 20 acre spacing as already established. These wells will be approximately 3200'-3600' deep.
- II. LOCATION: These wells will be located in Sections 23, Township 17 South,
  Range 29 East and Section 19 and 30 of Township 17 South, Range 30
  East, Eddy County, New Mexico.

#### III. PROJECTED TOTAL DEPTH, HOLE SIZE, SLOPE TEST:

- A. 12-1/4" hole to the top of the salt to accomodate 8-5/8" surface casing. (Approximately 350'-500').
- B. 7-7/8" hole to approximately 3200'-3600' to accommodate 5-1/2" production casing.
- C. Estimated drilling time 6-7 days per well.
- D. Slope test will be run on each bit trip or 500' intervals.
- E. If any coring or drill stem testing is done pipe will be strapped out of hole prior to coring or testing.

#### IV. DRILLING CONTRACTOR:

- A. Contractor: W.E.K. Drilling Company, Inc. (Probable)
- B. Type Contract: Footage
- C. Contract Depth: 3200'-3600'
- V. MUD PROGRAM: Probably will be furnished by Mudco or IMC.

Interval	Type Mud	Weight	Viscosity	Water Less
0'-3400'	Fresh & Salt Water	9-10	28 - 30	NC
3400'-3600'	Salt Mud	10-11	36 - 38	NC
(Will mud up	200' from T.D.)			

#### VI: TYPICAL GEOLOGICAL TOPS FOR WELL IN SECTION 24-17S-29E: (Middle of Unit Area)

Tops	Vertical Depth	Subsea
Queen	1880'	+1715'
Loco Hills	2340'	+1255'
Main Metex	2450'	+1145'
San Andres	258 <b>5</b> '	+1010'
Lovington	2690'	+ 905'
Jackson Pays	2870 <b>'</b>	+ 725'
Lower San Andres Pay	3150'	+ 445'
Keely Pay	3330'	+ 265'
Sub-Keely Pay	3450 <b>'</b>	+ 145'

#### VII: SAMPLES:

A. 10' Samples from 2200' to T.D. or as directed by Company Representative.

#### VIII: CORES AND DRILL STEM TESTS:

A. At the present time no cores or drill stem tests are planned.

#### IX: LOGS:

A. Proposed logging program will be a Sidewall Neutron, Gamma Ray, Caliper from O'-T.D.

#### X: CASING AND TUBING PROGRAM:

- A. Surface: 8-5/8" 20-23# range 2 casing to be set approximately (350'-500') and cemented with 100 sacks Class "C" cement with 2% CaCl.
- B. Production: 5-1/2" K-55 15.5# ST&C casing will be run.

Cementing of production casing will be with Class "H" cement with 1/4# flocel, 3/4 of 1% CFR-2, 5# salt, 10# sand per sack.

#### XI: SAFETY PROGRAM:

Blowout preventers will be used as well as close observation by company personnel to assure the well is safely drilled.

#### XII: THIRD PARTY SERVICES:

Surveying:

Jones & Company and John West Engineering

Dirtwork:

Jabo Rowland and Sweatt Construction

Cementing:

Halliburton and B.J.

Logging:

Dresser Atlas

1

Drilling Mud: Water Trucking: Mudco and IMC I & W and Caprock

will be aware of all items of this plan.

GENERAL AMERICAN OIL COMPANY OF TEXAS, WELL: BURCH "A" #345, LEASE: LC-028793-a EDDY COUNTY, NEW MEXICO

The subject well is located approximately 24 miles East of Artesia, New Mexico on the south side of Highway U.S. 82. The following is described of pertinent information concerning possible effect, a discussion of pertinent information concerning possible effect, which the proposed drilling of the well may have on the environment of the well and road sites and surrounding acreage. A copy will be

1. AERIAL ROAD MAP - Exhibit "A" is a portion of the Artesia Quadrangle Map #106 and Maljamar Quadrangle Map #107 showing well site in relation to U.S. Highway 82. Access road, which is shown on Exhibit "B" exits the highway about 24 miles East of Artesia, New Mexico.

posted on the derrick floor so that all contractors and sub-contractors

- LOCATION OF EXISTING WELLS The location of existing wells in the immediate area of the proposed well is shown on Exhibit "B".
- PROPOSED WELL MAT AND IMMEDIATE AREA Refer to Exhibit "C" for direction orientation and road access.
  - MAT SIZE 140' x 180'. a.
  - SURFACED Will be topped with 6" of caliche, bladed, watered, and compacted. Caliche to be purchased from B.L.M. by dirt contractor.
  - RESERVE PIT 60' x 70' pit unlined, joining mat to North. С.
  - CUT & FILL Location is basically flat except for small sand dunes. No fill will be needed except existing sand dunes leveled and topped with caliche.
  - DRILL SITE LAYOUT Exhibit "C" shows the location and layout including position of the Rig, Mud Tank, Reserve Pits, Pipe Racks, etc. The Rig will be errected with the V-Door to the East.

#### f. SETTING AND ENVIRONMENT

- (1) Terrain Low rolling sand hills.
- (2) Soil Sandy Soil.
- <u>Vegetation</u> Sparse vegetation, being mostly mesquite, shennery, weeds, and other semi-desert plants with some grass.
- (4) Surface Use Grazing.
- (5) Other Drillsite which is in sandy semi-arid desert country, is in a low enrironmental risk area. The total effect of drilling and producing this and other wells in this area would be very minimal.

#### q. DISTANCES TO:

- (1) Ponds and Streams There are no surface waters within 3/4 mile.
- (2) Water\_Wells There are no water wells within 1/2 mile.
- (3) Residences and Building - General American Oil Company Camp is located near this location. The camp consists of five family residences, one office building, two shop buildings and two storage buildings. The nearest structures are two residences approximately 400' from this location shown on Exhibit "B".
- (4) Arroyos, Canyons, Hills, etc. Outside of small sand dunes there are no surface features.

- h. <u>WELL SIGN</u> Sign identifying and location proposed well will be maintained at the drill site commencing with the spudding of the well.
- i. OPEN PITS All pits containing mud or other liquids will be guarded.

#### 4. ROADS

- a. <u>EXISTING ROADS</u> All existing roads within the immediate area of well site are shown on Exhibit "B".
- b. PLANNED ROADS Planned access road will require less than 400 feet of new road that is 12 feet wide. The road will be surfaced with caliche. The proposed road is colored blue and a suggested route to the location is colored red on Exhibit "B". Little improvement will be required on existing access road.
- c. <u>FENCES, GATES AND CATTLE GUARDS</u> Will be maintained as General American already operates several hundred wells in the immediate area.
- 5. TANK BATTERY If production is encountered no additional battery will be required as sufficient facilities are already on the lease.

#### 6. LEASE - PIPELINES

- a. EXISTING All existing pipelines are shown on Exhibit "B".
- b. <u>PLANNED</u> If production is encountered, flowline will consist of about 750' of 2" steel line on top of ground shown in orange on Exhibit "B".
- 7. WASTE DISPOSAL Barrel trash containers will be in accessible locations within the drill site area during drilling and completion operations. A waste disposal pit will be deep enough to handle waste and will be covered with a minimum of 2 feet of top soil. See Exhibit "C" for pit location. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. Any produced water will be disposed of through the currently existing S.W. D. system.
- 8. WATER SUPPLY Water supply to drill this well will be furnished through a steel line already laid through the drilling area.

Location of the water line is shown on Exhibit "B".

- 9. ARCHAEOLOGICAL RESOURCES None were observed.
- 10. <u>RESTORATION OF SURFACE</u> If well is productive, pits will be backfilled and leveled as soon as practical. Upon final abandonment of well, well site will be leveled and cleaned, with land returned as near as possible to original condition.
- 11. <u>OPERATOR'S REPRESENTATIVE</u> Field personnel who can be contacted concerning compliance of this surface use plan are as follows:

#### DRILLING AND PRODUCTION

Lendell Hawkins
P. O. Box 416
Loco Hills, New Mexico 88255 OR
Office Phone: 505 677-2481
Home Phone: 505 677-2277

Fred Starkey
P. O. Box 416
Loco Hills, New Mexico 88255
Office Phone: 505 677-2481
Home Phone: 505 746-9397

#### 12. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to be the best of my knowledge, true and correct; and that the proposed work performed by General American Oil Company and its Contractors and Sub-Contractors will conform to this plan.

2-10-77 DATE Lendell Hawkins, District Engineer

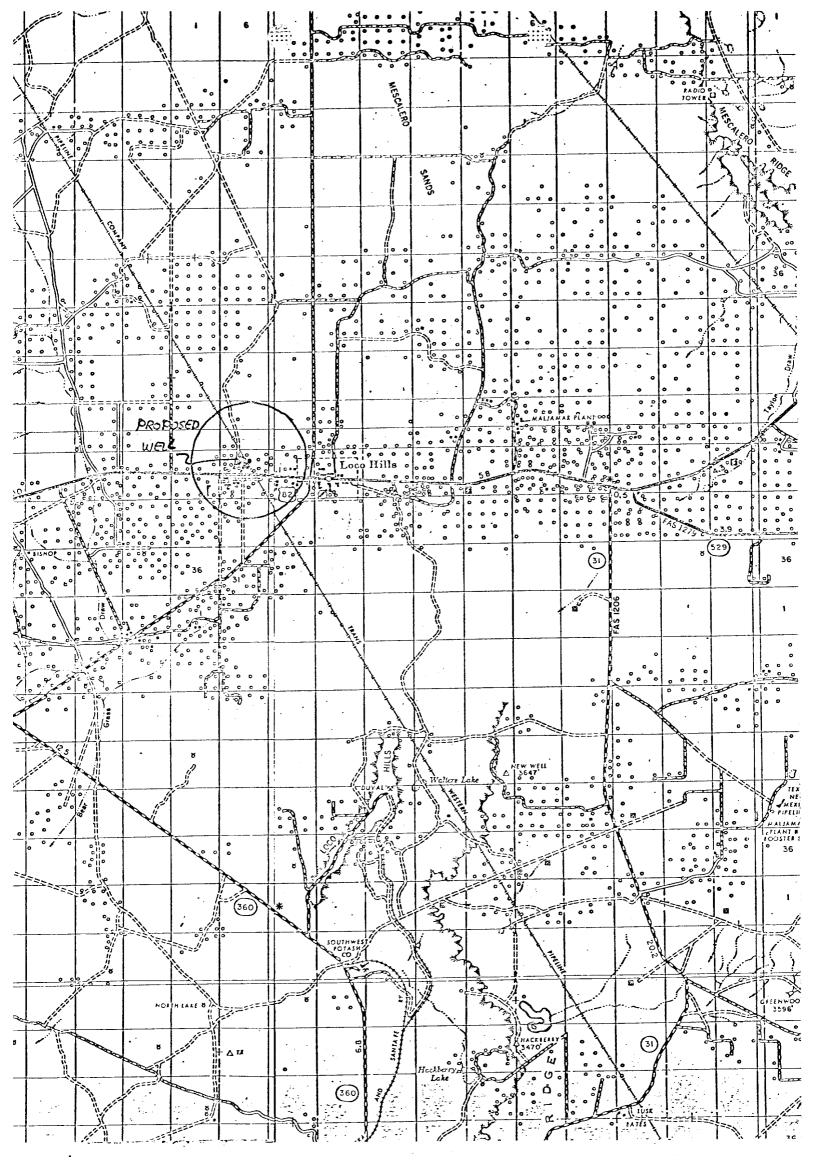


Exhibit "A"

SCALE: I" = 2 MILES

W

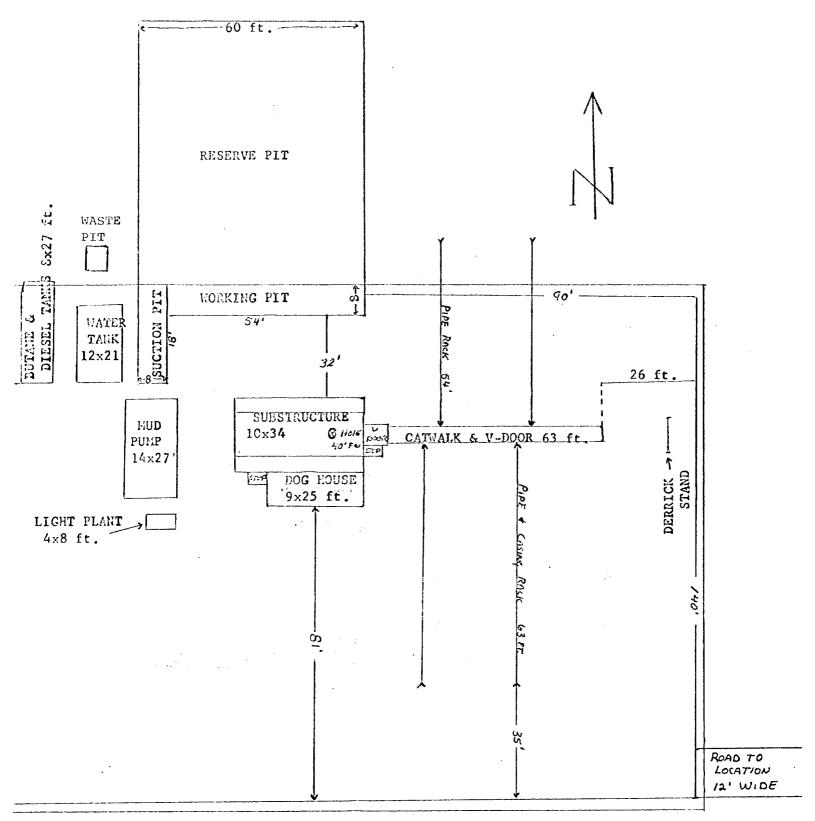


Exhibit "c"

ScalE: 1" = 25'