N. M. O. C. C. COSUBMIT IN T LICATES

(Other instru. ns on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

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1	5.	LEAS	E DE	SIGNA	CION	AND	SERIA	L	NO.	_

	GEOLO(GICAL SURVE	ΞΥ			LC - 02879	3-c	
APPLICATION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME							
	LL 🕮	DEEPEN PLUG BACK			7. UNIT AGREEMENT NAME			
b. TYPE OF WELL	AS OTHER			INGLE MULTIP	r XX	8. FARM OR LEASE NAM	ME	
WELL XX W	Burch "C"							
General Amer	ican Oil Compar	y of Texas		RECEIV	E D	9. WELL NO.		
3. ADDRESS OF OPERATOR				100 P 40	77	41		
P. O. Box 41	10. FIELD AND POOL, C							
	eport location clearly and					Grayburg-Ja		
2615 At proposed prod. zon	AND SURVEY OR AREA							
14 DISTINCT IN MILES	AND DIRECTION FROM NEAR	PET TOWN OR POS	T OFFIC	F. O	Ç	Sec. 30, T-17S, R-30E 12. COUNTY OR PARISH 13. STATE		
14. DISTANCE IN MILES A	1-1/2 Miles					Eddy	New Mexico	
15. DISTANCE FROM PROPO		ME2C OL FO		D. OF ACRES IN LEASE	17. NO. 0	OF ACRES ASSIGNED	THEM TIEXTOC	
LOCATION TO NEAREST PROPERTY OR LEASE L	r Line, ft.	2615'		1115		THIS WELL 40		
(Also to nearest drlg 18. DISTANCE FROM PROP	OSED LOCATION*		19, PI	OPOSED DEPTH	20. ROTA	ARY OR CABLE TOOLS		
TO NEAREST WELL, DO OR APPLIED FOR, ON TH	RILLING, COMPLETED,	1000'		3350'		Rotary		
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START		
		3600 GR				March 20, 1977		
23.	r	ROPOSED CASIN	NG ANI	CEMENTING PROGRA	M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	OOT	OT SETTING DEPTH		QUANTITY OF CEMENT		
12-1/4"	8-5/8"	24#		500'		Circulate		
7-7/8"	5-1/2"	14#		3350'		300 sacks		
$10^{4} = 3000 $ $10^{$	PROPOSED PROGRAM: If I	proposal is to deep	user	olug back, give data on p	resent prod	U. S. GEOLOGICAL ARTESIA, NEW A	L SURVEY MEXICO	
zone. If proposal is to preventer program, if an 24.	drill or deepen directiona y.	Hy, give pertinent	data (on subsurface locations ar	o measure	a and true vertical depti	is. Give blowout	
SIGNED SINCE	el Nawbens	ти	LE	District Engine	er	DATE Febru	ary 9, 1977	
(This space for Fede	ral or State office use)							
PERMIT NO.	****			APPROVAL DATE				
APPROVED BY	15 15 15							
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#1/2mm	<u></u>	*See Instru	ctions	On Reverse Side				

W MEXICO OIL CONSERVATION COMMI >>N WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.

Operator			Lease	_		v.	Well No.		
GENERAL AME	RICAN OIL COM	MPANY OF TEXAS	Burch C			€-41			
Unit Letter	Section	Township	Range County						
"Ј"	30	17 South	3	0 East		Eddy			
Actual Footage Loc	ation of Well:								
2615	feet from the Sou	uth line and	2615	le	et from the	East	line		
Ground Level Elev:	Producing For		Pool		et nom me	Dec	dicated Acreage:		
3600.0		g & San Andres		burg-Jacl	kson		40 Acres		
	1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.								
interest a	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).								
		lifferent ownership is unitization, force-poo	_	to the well	, have the	interests of al	Lowners been consoli-		
Yes	□ No If a	nswer is "yes," type	of consolid	ation		13° on 15°	Ayy.		
res	[] 140 It 81	nower to yes, type	or consonu		' 1	$\sigma_{F_0} \sigma_{G_0}$			
7.0	·_ 4492 1:_x xb_			hiah hawa s	satually ha	an and Midata	t (Uga rayarea sida af		
		owners and tractides	criptions w	mich have a	ictually be	en consumuate	d. (Use reverse side of		
i i	f necessary.)						V.C		
							nitization, unitization,		
forced-poo	ling, or otherwise) or until a non-stands	ırd unit, eli	minating su	ich interest	s, has been ap	proved by the Commis-		
sion.									
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	!		ł			I hereby cer	tify that the well location		
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DRILLING PROGNOSIS

- I. OBJECTIVE: 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 accommodate 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	2585 '	+1010'
Lovington	2690 '	+ 905'
Jackson Pays	2870 '	+ 725'
Lower San Andres Pay	3150'	+ 445'
Keely Pay	3330'	+ 265'
Sub-Keely Pay	3450 '	+ 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 Mudco and IMC

Drilling Mud:

Water Trucking: I & W and Caprock

SURFACE USE PLAN

GENERAL AMERICAN OIL COMPANY OF TEXAS, WELL: BURCH "C" # 41 LEASE: LC-028793-c 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 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 posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

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

f. <u>SETTING AND ENVIRONMENT</u>

- (1) Terrain Low rolling sand hills.
- (2) Soil Sandy Soil.
- (3) <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 environmental risk area. The total effect of drilling and producing this and other wells in this area would be very minimal.

g. 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 There are no residences or buildings within 1/2 mile.
- (4) Arroyos, Canyons, Hills, etc. Outside of small sand dunes there are no surface features.
- h. <u>WELL SIGN</u> Sign identifying and locating 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 100 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</u>, <u>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 1,000' 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 the 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. OPERATOR'S REPRESENTATIVES 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 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.

2-9-77 DATE Lendell Hawkins, District Engineer

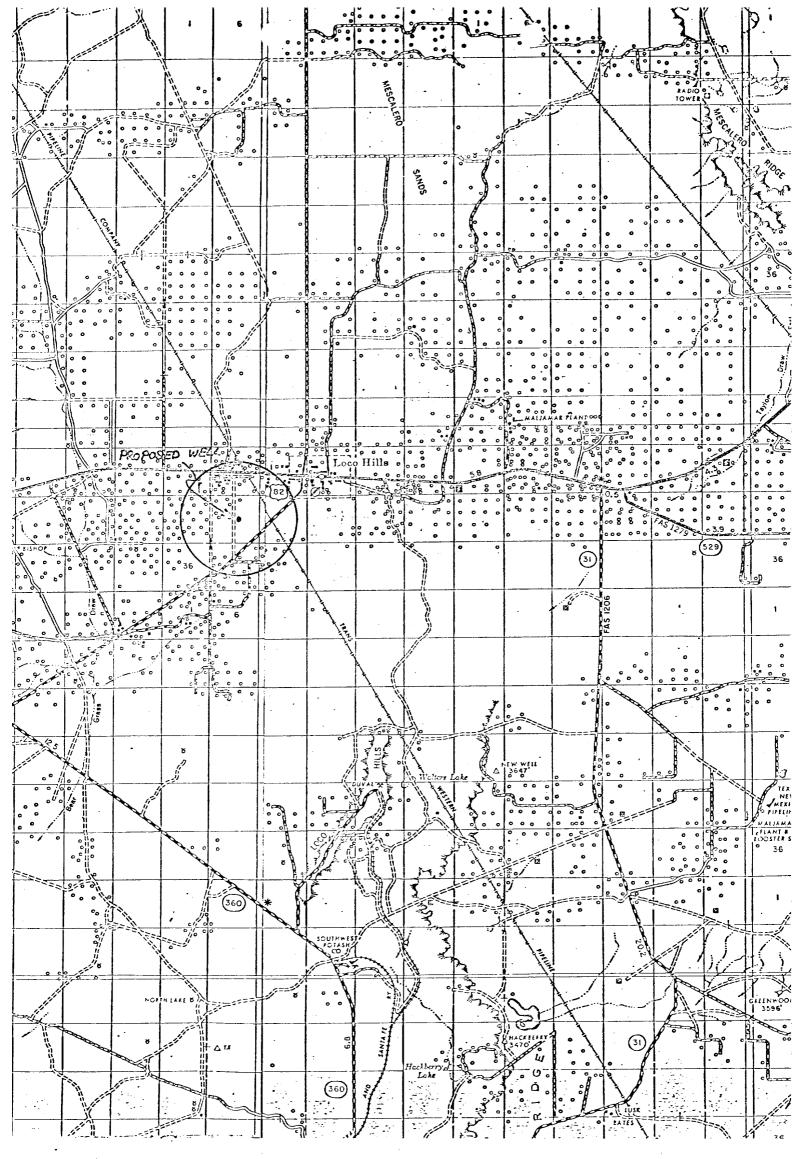


Exhibit SCALE: 1

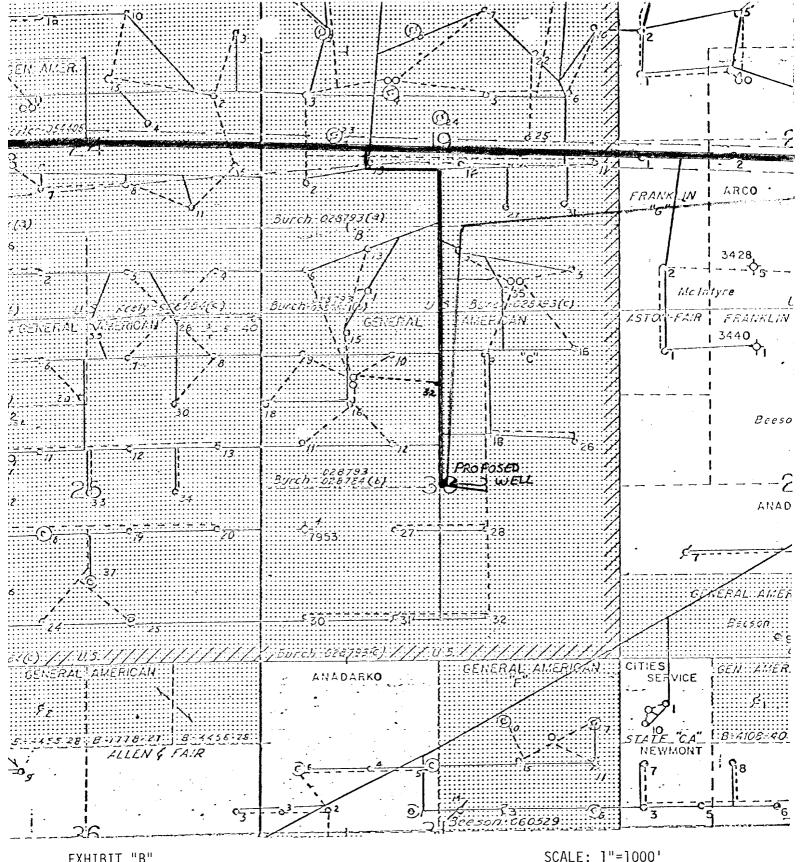


EXHIBIT "B"

GENERAL AMERICAN OIL COMPANY OF TEXAS

BURCH "C" #41 (SECTION 30-TOWNSHIP 17 SOUTH- RANGE 30 EAST.)

• OIL WELL

INJECTION WELL

— EXISTING ROADS

PROPOSED FLOWLINES (LESS THAN 1,000' OF 2" STEEL ON TOP OF GROUND)

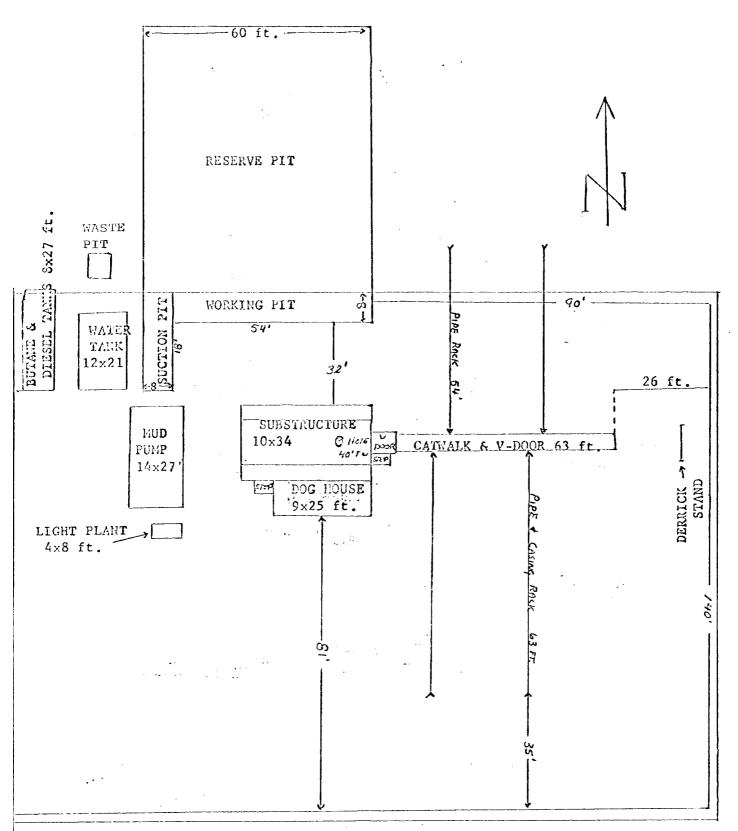
NEW PROPOSED ROADS. (NOTE: THIS LOCATION IS JUST OFF ROADSIDE AND LESS THAN 100' WILL BE CONSTRUCTED.)

- WATER SUPPLY LINE

U.S. HI-WAY 82

SUGGESTED ROUTE TO LOCATION IS APPX. 24 MILES EAST OF ARTESIA, NEW MEXICO TO THE GENERAL AMERICAN OIL CAMP ON SIDE OF ROAD (SOUTH) OF U.S. HI-WAY 82. TURN INTO CAMP AND GO OUT EAST CATTLE GUARD AND TURN SOUTH AND CONTINUE SOUTH FOR APPX. ONE MILE AND LOCATION IS JUST ON EAST SIDE OF ROAD.

---- EXISTING FLOWLINES



ROAD TO LOCATION 12' WIDE

Exhibit "C"

1"= 25 fT.