Form 9-331 C (May 1963)

N. M. O. C. C. COPY SUBMIT IN PLICATE.

UNITED STATES RIOR

(Other instructions on reverse side)

DEPARTMENT	OF	THE	INTE

30-0/5-2209**5**5. LEASE DESIGNATION AND SERIAL NO

							TOTAL DEBUTED TO
GEOLOGICAL SURVEY					LC-028992-e		
APPLICATION	V FOR PERMIT T	O DRILL, I	DEEPEN,	OR PLUG	BACK	6. IF INDIAN, ALLO	TTEE OR TRIBE NAME
la. TYPE OF WORK							
DRI	ILL 🔀	DEEPEN [PLUG BA	ACK 🗌	7. UNIT AGREEMEN	T NAME
b. TYPE OF WELL							
OIL XX G	AS OTHER		SINGLE ZONE	XX MULT	IPLE	8. FARM OR LEASE	NAME
2. NAME OF OPERATOR						Arnold "E'	ı
General Ameri	can Oil Company	of Texas				9. WELL NO.	
3. ADDRESS OF OPERATOR						4	
P. O. Box 416	Loco Hills,	New Mexico	88255			10. FIELD AND POO	L, OR WILDCAT
4. LOCATION OF WELL (R	eport location clearly and	in accordance wit	th any State re				づん
	L and 990' FEL			RECE	IVE	B. SEC., T., R., M., AND SURVEY OF	OR BLK.
At proposed prod. zor	ie					Sec. 23, T-	-17S - R-30E
				APR	7 1077	-	-
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE.	THE IX	7 1977	12. COUNTY OR FAR	ISH 13. STATE
2-1/2 Miles	East of Loco H	ills, New D	Mexico			Eddy	New Mexico
15. DISTANCE FROM PROPO LOCATION TO NEARES			16. NO. OF A		NO. 0	OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE I	INE, FT.	990'	80	ARTESIA	PFFICE	40	
18. DISTANCE FROM PROF	POSED LOCATION®		19. PROPOSEI	DEPTH	20. ROTA	RY OR CABLE TOOLS	
or applied for, on this lease, ft. 630 this lease, ft.				0	Cable Tools		
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)		·				WORK WILL START
		3664.1	GR			April 1,	1977
23.	P	ROPOSED CASI	NG AND CEM	ENTING PROG	RAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00T S	ETTING DEPTH		QUANTITY OF CEMENT	
12-1/4"	8-5/8"	24#		500		Circulate	<u> </u>
8-1/4"	7"	20#		2100 250 sacks		3	
	1		i		1		

We propose to drill this well to 2100' and complete in the Seven Rivers.

All zones indicating porosity will be acidized or sand fraced.

MAR 08 1977

U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED LENGELL Nawber	District Engineer	_{ратв} <u>February 26, 197</u> 7
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BY	JUL - 6 1977	DATE
CONDITIONS OF APPROVAL, IF ANY:	6 1977	
11/21/11	JUL *See Instructions On Reverse Side	

EW MEXICO OIL CONSERVATION COMM. ON WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

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

Operator			Lease	· · · · · · · · · · · · · · · · · · ·	Well No.
GENERAL AME	RICAN OIL CO	MPANY OF TEXAS	A HNC	4	
Jnit Letter	Section	Township	Ronge	County	
	23	17 South	30 East	Eddy	
Actual Footage Loca		Cauth	000		
990 Ground Level Elev.	feet from the Producing For	South line and	990 tee	et from the Last	line
3664.1	1	RIVERS	FREN		Dedicated Acreage: 40 Acres
					
1. Outline the	e acreage dedica	ited to the subject we	ell by colored pencil of	or hachure marks on the	plat below.
interest an	id royalty).			RECEIVE	ereof (both as to working
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? WAR 1977 WE NO If answer is "yes," type of consolidation ARTESIA WAR 1978					
this form if No allowat	f necessary.) ble will be assign	ed to the well until al	riptions which have a linterests have been	ctually be sweep solidated (by common consolidated (by common consolidated (by common consolidated)	ted. (Use reverse side of nunitization,
forced-pool sion.	ling, or otherwise	or until a non-standar	d unit, eliminating su	ch interests, has been a	approved by the Commis-
	i i				CERTIFICATION
	1		1	I hereby ce	ertify that the information con-
	!		1	tained here	ein is true and complete to the
	!		t	best of my	knowledge and belief.
	1		 		el Naukins
	+	+	<u>i</u>		L HAWKINS
			i i	Position	NEER
	1			Company	NCLK
	i		İ	1 1	AMERICAN OIL CO. OF
	1			Date	TEXAS
	i				Y 26,1977
	 			shown on t notes of a under my s is true an	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my and belief.
	+		0 0 0 0	Date Surveyer Registered and/or Land	od
0 330 660	190 1320 1650 19	80 2310 2640 200	0 1500 1000	Certification 6	ANIEL OLD

Re: Drilling Prognosis
Arnold "E" No. 4
Eddy County, New Mexico

- I. OBJECTIVE: Drill a 2100' well to test Seven Rivers Oil Zone. Possible may drill with cable tool.
- II. LOCATION: 990' from South and 990' FEL. Section 23, Township 17 South, Range 30 East.
- III. BUDGET CLASSIFICATION: Development Drilling.
- IV. 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 500').
 - B. 8-1/4" hole to approximately 2100' to accommodate 7" production casing.
 - C. Estimated drilling 3 days with rotary (18 days with cable tools).
 - D. Slope test will be run on each bit trip or 500' intervals. (If drilled wit rotary).
 - E. If any coring or drill stem testing is done pipe will be strapped out of hole prior to coring or testing.

V. DRILLING CONTRACTOR:

- A. Contractor: W.E.K. Drilling Company, Inc. or Morgan Cable Tools
- B. Type Contract: Footage
- C. Contract Depth: 2100'
- VI. MUD PROGRAM: Probably will be furnished by Mudco or IMC. (If drilled with rotary).

Interval	Type Mud	Weight	Viscosity	Water Less
0'-1900'	Fresh & Salt Water	9-10	28 - 30	NC
1900'-2100'	Salt Mud	10-11	36 - 38	NC

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,

X. CASING AND TUBING PROGRAM:

- A. Surface: 8-5/8" 20# range 2 casing to be set approximately 500' and cemented with 100 sacks Class "C" cement with 2% CaCl.
- B. Production: 7" 23# used ST&C run to 2100'. Cementing of production casing will be mostly 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 & B.J.

Logging:

Dresser Atlas

Drilling Mud:

Mudco and IMC

Water Trucking: I & W and Caprock

XIII. LOG DISTRIBUTION:

2 - W. T. Patterson GAOC Meadows Building Dall

Dallas, Texas 75206

4 - Lendell Hawkins GAOC P. O. Box 416

Loco Hills, N. M. 88255

SURFACE USE PLAN

GENERAL AMERICAN OIL COMPANY OF TEXAS, WELL: ARNOLD "E" #4 MAR OR LEASE LC-028992-e EDDY COUNTY, NEW MEXICO U.S. GEOLOGICA.

RECEIVED

SURFACE USE PLAN

MERICAN OIL COMPANY OF TEXAS, WELL: ARNOLD "L"

LEASE LC-028992-e EDDY COUNTY, NEW MEXICO US GROUNG 1977

ARTEST COLOGICAL SURVEY

TO miles East of Artesian NEW MEXICAL SURVEY

TO MILES EAST OF MEXICAL SURVEY

TO MEXICAL SU The subject well is located approximately 29 miles East of Artesia, NEVAL New Mexico on the South side of Highway U.S. 82. The following is NEW NEW MEXICO 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.
- $\underline{ \text{LOCATION OF EXISTING WELLS}} \text{ The location of existing wells in the immediate}$ 2. 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.
 - MAT SIZE 145' x 105'. 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 50' x 27' 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, Reserve Pits, Pipe Racks, etc.

SETTING AND ENVIRONMENT

- (1) Terrain Low rolling sand hills.
- (2) Soil Sandy Soil.
- Vegetation 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.
- Residences and Building There are no residences or buildings (3) within 1/2 mile.
- (4) Arroyos, Canyons, Hills, etc. Outside of small sand dunes there are no surface features.
- WELL SIGN Sign identifying and locating proposed well will be maintained at the drill site commencing with the spudding of the well.
- OPEN PITS All pits containing mud or other liquids will be guarded.

4. ROADS

- a. EXISTING ROADS 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 on 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 400' 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 by trucking.
- 9. ARCHAEOLOGICAL RESOURCES None were observed.
- 10. RESTORATION OF SURFACE If well is productive, pits will be backfilled and leveled as soon as practical. Upon final abandonment of well, well side 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

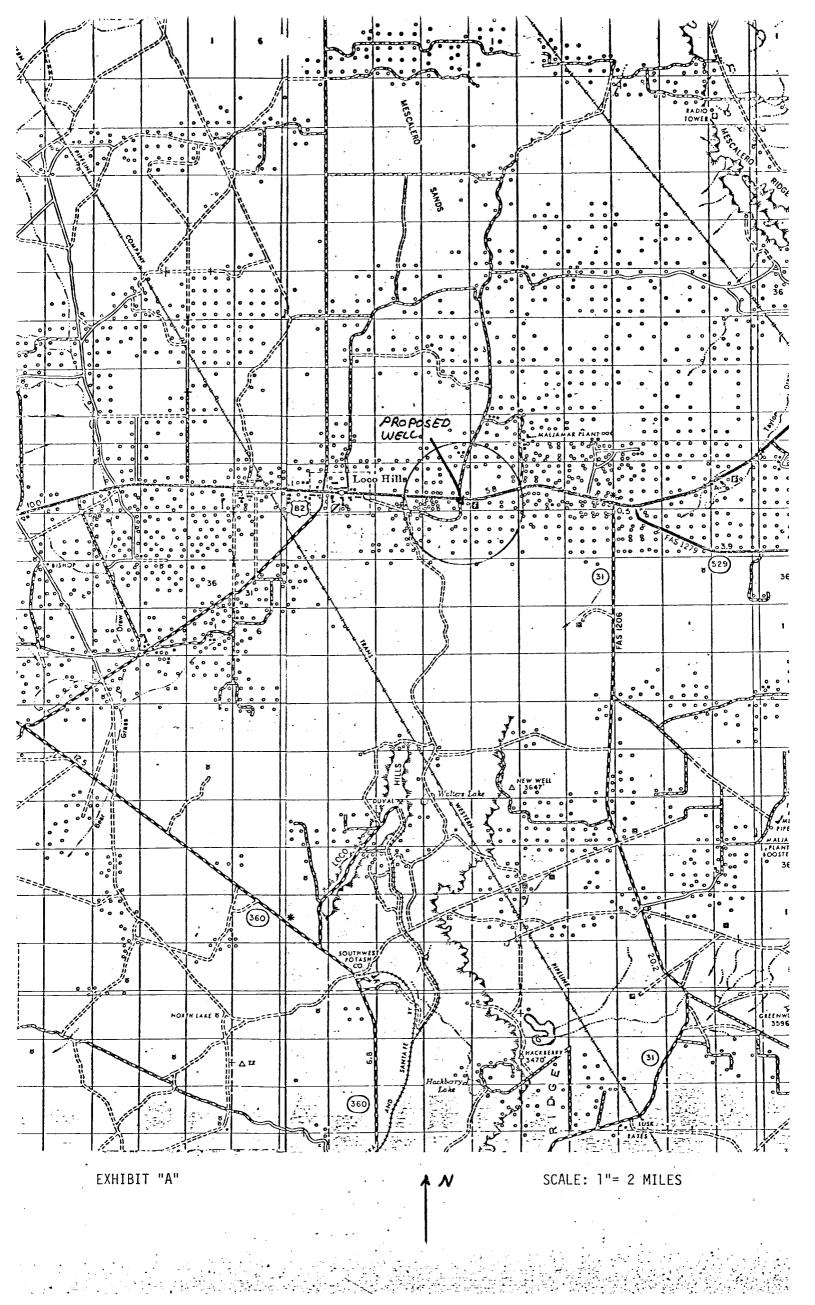
Lendell Hawkins
P. O. Box 416
Loco Hills, New Mexico 88255 OR
Office Phone: 505 677-2481
Home Phone: 505 677-2277

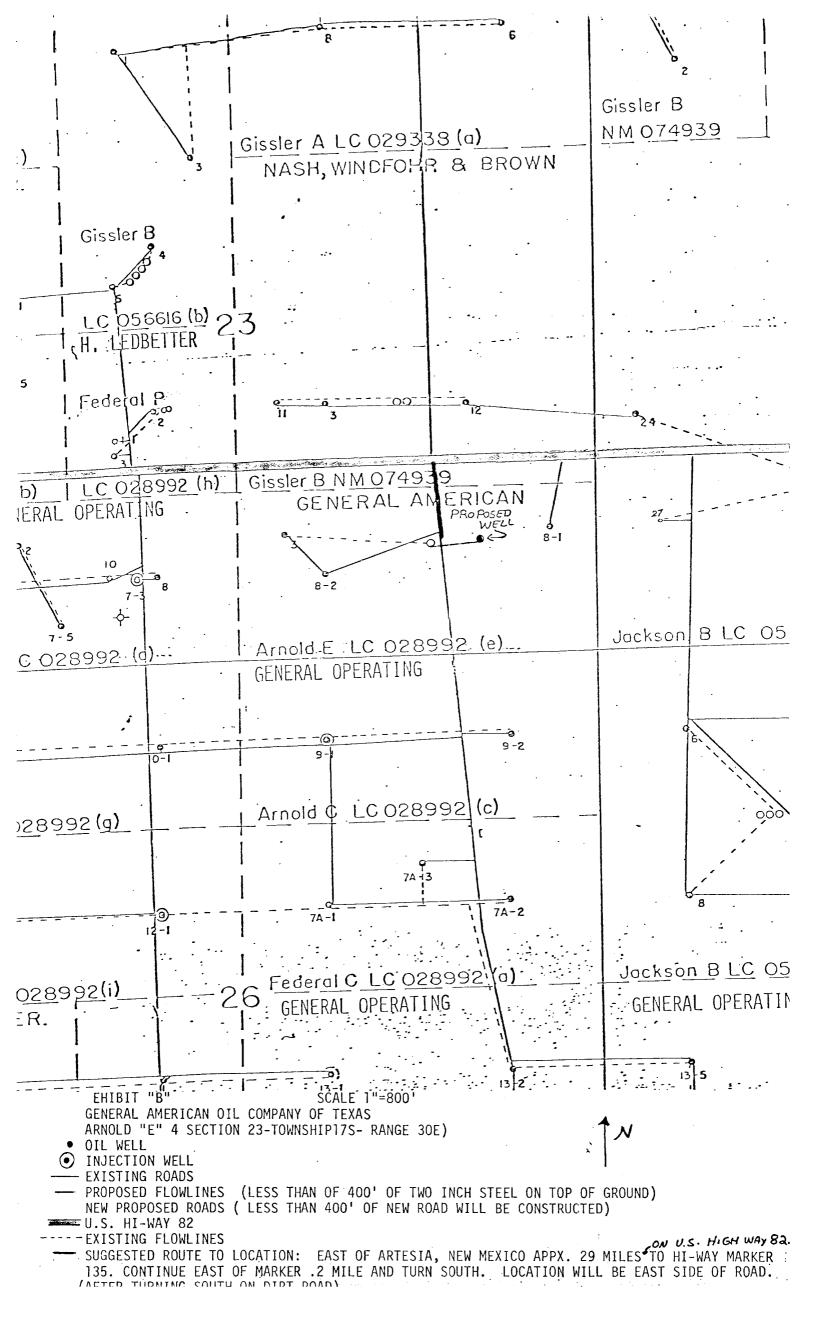
Fred Starkey
P. O. Box 416
Loco Hills, New Mexico 88255
Office Phone: 505 677-2481
Home Phone: 505 746-9397

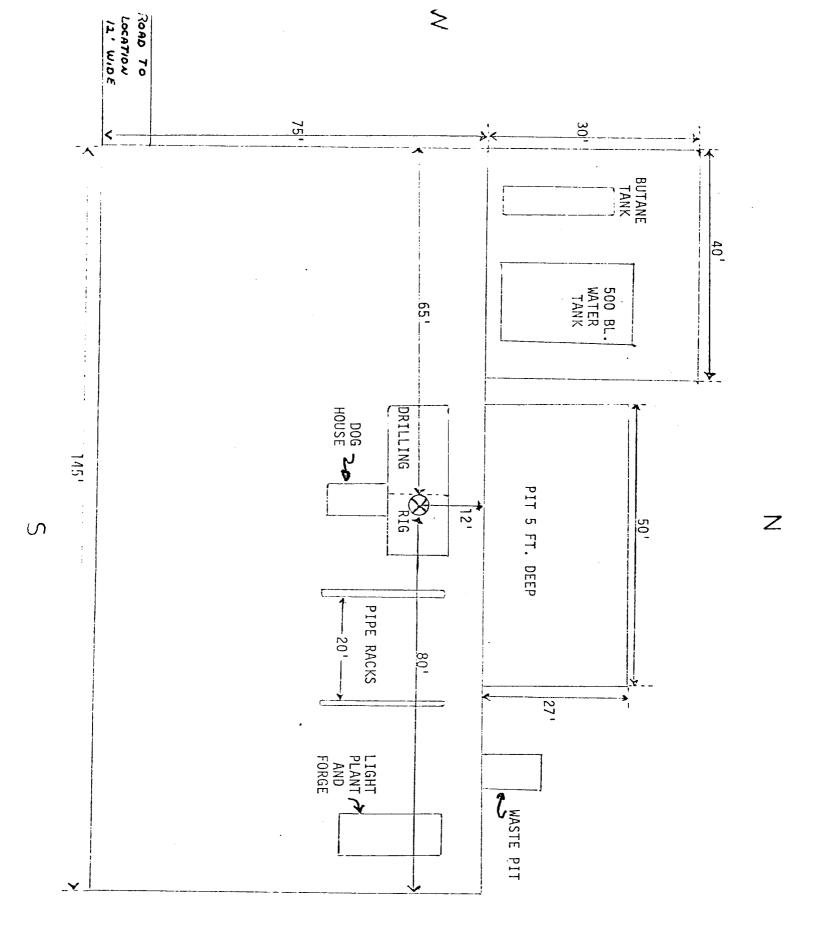
12. CERTIFICATION

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.

2-26-77 DATE LEndell Nawkins
endell Hawkins District Engineer







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