MM.O.G.D. HOLY

			ther instru reverse s		30-015-				
C/5F		GICAL SURV					5. LEARE DESIGNATION	-10-	
APPLICATIO	N FOR PERMIT	O DRILL, I	DEEP	EN, OR I	PLUG E	3ACK	6. IF INDIAN, ALLOT	TEE OR TRIBE NAME	
DR DR TYPE OF WELL	RILL X	DEEPEN [PL	UG BA	ак 🗆	7. UNIT AGREEMENT	NAME	
	WELL OTHER			INGLE	MULTIP Zone	LE	S. FARM OR LEASE 1	NAME	
2. NAME OF OPERATOR							Burch "B"		
General Amer	ican Oil Compan	v of Texas	,				9. WELL NO.	· · · · · · · · · · · · · · · · · · ·	
3. ADDRESS OF OPERATOR					RECEIVE	:D	34		
P. O. Box 12	8, Loco Hills,	New Mexico	882	55			10. FIELD AND POOL		
4. LOCATION OF WELL (1	8, Loco Hills, Report location clearly and	in accordance wit	h any i	tate requisers	SP45 1 10	001	Grayburg -	- SN- A-A	
2310' FSL &	3301 mil			30	14 % # 17	101	11. SEC., T., B., M., O	R BLE.	
At proposed prod. so				ſ). C. D		UL-L	AKEA	
,	Dame				7. C. U			-17S, R-29E	
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFIC		libiA, Gir	(CE-	125 COUNTY OR PARIS		
	4						Eddy	New Mexico	
15. DISTANCE FROM PROP LOCATION TO NEARES			16. N	OF ACRES 11	LEASE		F ACRES ASSIGNED		
PROPERTY OR LEASE		330'		800		10	40		
18. DISTANCE FROM PRO	PORED LOCATION® DRILLING, COMPLETED,		19. rı	OPOSED DEPTH	I	20. ROTA	RY OR CABLE TOOLS		
OR APPLIED FOR, ON TH		500'		3240			Rotary		
21. ELEVATIONS (Show w)	bether DF, RT, GR, etc.)						22. APPROX. DAT	OBE WILL START	
		3594.6' GL					July,	81	
23.	I	ROPOSED CASIN	ig ani	CEMENTIN	G PROGRA	M			
SIZE OF HOLE	BIZE OF CASING	WEIGHT PER PO	ют	BETTING	DEPTH		QUANTITY OF CEM	ENT	
12 1/4"	8 5/8"	20#		400' - '	500'	Circul	late to surfa	ce	
7 7/8"	5 1/2"	15.5#		3240	·	230± s			
We propose San Andres.	to drill this we	ell to 3240	', aı	nd comple	ete in	the Gra	ayburg and		
Mud program	: Water and nat	ive mud wi	11 ь	used to	200	from TI). Salt gel	1.0	

will be used the remainder of the hole.

All zones indicating porosity will be acidized or sand fraced.

A 10" 3000# blowout preventor will be used during drilling operations.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive in above space describe Proposed Process: it proposed is to deepen of plus back, give described on subsurface locations and measured and the specifical destine. Give blowout preventer program, if any.

ROSWELL NEW MEXICO 24

·				
BIGNED Sandell M. Maurkins	TITLE	Field Superint	endent	DATE June 5, 1981
(This space for rederator State space use) ART				
PERMIT NO.		APPROVAL DATE		
JUN 1 6 1961	TITLE			DATE
CONDITIONS OF APPROVAL, IF ANY: JAMES A. GILLHAM DISTRICT SUPERVISOR		INSP	6-10-8)	
				>

NEW EXICO OIL CONSERVATION COMMISSIO WELL LOCATION AND ACREAGE DEDICATION PLAT

MAY 1 3 1981

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

G A O C RECEIVED Form C-102 Sepersedes C-128 Effective 1-1-65

Operator			Lease		MEXIC@ell No
GENERAL		L CO. OF TEXA			34
Unit Letter	Section 2 2	Township	Ronge	County	
L Actual Footage Loc	23	17 SOUTH	29 EAST	EDDY	
2310	feet from the	SOUTH line and		t from the WEST	line
Ground Level Elev.	Producing For	mation	Pool Que	SR-Q-45-519	Dedicated Acreage;
3594.6	Grayburg	- Jackson	Grayburg - San	Andres	40 Acres
2. If more th	_		vell by colored pencil o		e plat below. ereof (both as to working
3. If more tha	n one lease of dommunitization, u	unitization, force-pool	ing. etc?	have the interests of	all owners been consoli-
Yes	No If a	nswer is "yes;" type	of consolidation	· · · · · · · · · · · · · · · · · · ·	
this form i No allowat	f necessary.)	ed to the well until a	ll interests have been c	onsolidated (by com	nunitization, unitization, approved by the Commis-
	T		<u> </u>		CERTIFICATION
	 		! ! ! !	tained her	ertify that the information con- ein is true and complete to the knowledge and belief.
	· +			Name	N. Hawkins
	, 		 	Position Field Su	perintendent
			 	1 1	American Oil Co. of T
-330 ['] -•			ATE OF SERVEYOR	I hereby shown on notes of a under my is true as	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.
2 310'	 	JOHN I	W WEST	Registered Fand/or Land	-8-81 Tolessional Engineer Surveyor White Walt
0 330 660	90 1320 1650 198	0 2810 2640 200	0 1500 1000 S	Certificate N	PATRICK A. ROMERO 6665 Rongld J. Eidson 3239

DRILLING PROGNOSIS

BURCH "B" #34 BURCH "C" #44 GRAYBURG-JACKSON EDDY COUNTY, NEW MEXICO

I. OBJECTIVE: Drill 2 infill wells in the Grayburg-Jackson Field, Eddy County, New Mexico.

II. LOCATION: Burch "B" #34 330' FWL & 2310' FSL Sec. 23, T-17S, R-29E 2310' FSL Sec. 23, T-17S, R-29E Sec. 23, T-17S, R-29E

III. BUDGET CLASSIFICATION: Developmental.

IV. PROJECTED TOTAL DEPTH, HOLE SIZE, SLOPE TEST, DRILL PIPE MEASUREMENTS:

- A. 12-1/4" hole to Top of Salt (approximately 400'-500') to accommodate 8-5/8" surface casing.
- B. 7-7/8" hole to total depth; Burch "B" #34, 3240' and Burch "C" #44, 3300' to accommodate 5-1/2" production casing.

C. Estimated drilling time 6-7 days per well.

- D. Slope test will be run at each bit trip, 500' interval, or as directed by company representative.
- E. Drill pipe will be strapped out of hole before any coring, testing, or logging.

V. <u>DRILLING CONTRACT</u>:

- A. Contractor: W. E. K. Drilling Company, Inc.
- B. Type of Contractor: Footage
- C. Contract Depth: 3300'

VI. MUD PROGRAM:

Interval	Type Mud	Weight	<u>Viscosity</u>	WL
0' — 200' from TD	Fresh & Salt Water	9-10	28 - 30	NC
200' from TD — TD	Salt GEL	10-11	36 - 40	NC

VII. TYPICAL GEOLOGICAL TOPS FOR SECTION 23, TOWNSHIP 17-SOUTH, RANGE 29-EAST:

<u>Vertical Depth</u>	Subsea Depth
1807' 1962' 2258' 2370' 2496' 2586'	+ 1782' + 1627' + 1331' + 1219' + 1093'
	1807' 1962' 2258' 2370'

VIII. SAMPLES

A. Samples will be taken at 10' intervals from 2200' to TD or as directed by Company representative.

IX. CORES AND DRILL STEM TESTS:

A. No cores or DSTS are planned.

X. LOGS:

A. Logging program will consist of Sidewall Neutron—Gamma Ray—Caliper Log from 0' — TD.

XI. CASING PROGRAM:

- A. Surface: 8-5/8" 20# K-55 ST&C casing will be run to just above Top of Salt and cemented with Class "C" cement with 2% calcium chloride. If cement does not circulate, the casing will be cemented to surface with ready-mix or 1" pipe down the backside. Appropriate float equipment will be run and a dry sample of the cement caught.
- B. Production: 5-1/2" 15.5# K-55 ST&C casing will be run to TD.

 Sufficient volume of Class "H" cement with 10# sand, 5# salt, 1/4#

 Flocel, and 3/4 of 1% CFR-2 per bag will be pumped to cover all

 zones of interest. Appropriate float equipment will be run and a

 dry sample of the cement caught. There will be a 20' shoe joint in
 each of these wells.

XII. SAFETY PROGRAM:

The safety program will confirm to all U.S.G.S. rules and regulations. The B.O.P.E. will be checked at least once a week or as directed by company representative.

XIII. THIRD PARTY SERVICES:

st Engin	eering
wland Co	nstruction
rucking	
Mud Comp	any
rton o	r Western
Atlas	
rton o	r Western
	wland Co rucking Mud Comp rton o Atlas

	SUBMITTED BY: Sendell 7.	Naukins
MSS/mjc	DATE:	
	APPROVED BY:	
	DATE:	

GENERAL AMERICAN OIL COMPANY OF TEXAS

SURFACE USE PLAN

BURCH "B" # 34



SURFACE USE PLAN

The proposed well is located 4.1 miles west of Loco Hills, New Mexico on the south side of U. S. Highway 82. The following is a discussion of pertinent information concerning the possible effect the well might have on the surrounding environment. A copy of this plan will be posted on the drilling rig, so all contractors and sub-contractors will be aware of it's contents.

- I. AERIAL ROAD MAP Exhibit "A" is a portion of the Red Lake S. E. U.S.G.S.

 Map. This shows the well in relationship to U. S. Highway 82 and the access roads.
- II. LOCATION OF EXISTING WELLS The location of existing wells in the immediate area is shown on Exhibit "B".
- III. PROPOSED WELL MAT AND IMMEDIATE AREA Refer to Exhibit "C" for direction orientation and road access to well site.
 - A. Mat Size 140' X 180'.
 - B. <u>Surface</u> The surface will be topped with at least 6" of caliche, bladed, watered and compacted. Caliche will be bought from B.L.M. by dirt contractor.
 - C. Reserve Pit 60' X 70' unlined.
 - D. <u>Cut and Fill</u> No fill will be needed. Existing small sand dunes will be topped and covered with caliche.
 - E. <u>Drill Site Layout</u> Exhibit "C" shows the location and layout of pits and drilling equipment.

F. Setting and Environment

- 1. <u>Terrian</u> Low rolling sand dunes.
- 2. Soil Loamy Sand.
- 3. <u>Vegetation</u> Vegetation in the area is approximately 35% by density. It is primarily shrubs consisting mainly of broom snakeweed.
- 4. <u>Surface Use</u> Grazing.
- 5. Other (Drill Site) The proposed well is in semi-arid desert country and is a low risk environmental area.

G. Distances

1. Ponds and Streams - There are no natural surface waters within 3 miles.

G. Distances (Continued)

- 2. Water Wells There are no water wells within 2 miles.
- 3. Residences and Buildings There are no residences or buildings within 1-1/2 miles.
- 4. Arroyos, Canyons, Etc. There are no other surface features besides low rolling sand dunes.
- H. Well Sign A sign identifying the well and location will be posted commencing with the spudding of the well.
- I. Open Pits All open pits will be guarded.

IV. ROADS

- A. Existing Roads All existing roads are shown on Exhibit "B".
- B. Proposed Road The proposed road is 240' long and shown on Exhibit "B".
- C. <u>Fences and Cattleguards</u> All fences and cattleguards will be maintained by General American.
- V. TANK BATTERY As this is an infill well, General American already has facilities on this lease.

VI. LEASE — PIPELINES

- A. Existing Existing pipelines are shown on Exhibit "B".
- B. <u>Planned</u> If production is encountered, 300' + new 2" line will be laid to the main flowline running to the battery.
- VII. WASTE DISPOSAL Barrel trash containers will be in accessible locations on the drilling site. On Exhibit "C" you will find a disposal pit for all trash resulting from the drilling operation. When the drilling and completing of this well is over, the disposal pit will be covered with at least 2' of topsoil. If the well is productive, maintenance waste will be placed in special containers, and hauled away periodically. Any produced water will be disposed of through the leases's current S.W.D. system.
- VIII. WATER SUPPLY All water needed for the drilling and completing of this well will be trucked in.
 - IX. ARCHEOLOGICAL RESOURCES See Exhibit "D", Archeological Clearance Report.
 - X. <u>RESTORATION OF SURFACE</u> If well is productive, the pits will be backfilled and leveled as soon as is practical after completion. Upon final abandonment of the well, the well site will be returned to it's original condition per B.L.M. requirements.

XI. OPERATOR'S REPRESENTATIVE - Field personnel who can be contacted regarding this well and this surface use plan are:

DRILLING AND PRODUCTION

L. N. Hawkins Field Superintendent P. O. Box 128

Loco Hills, New Mexico 88255

Home:

Office: (505) 677-2481

(505) 677-2277

M. S. Sansing Engineer

P. O. Box 128

Loco Hills, New Mexico 88255

Office: (505) 677-2481 Home: (505) 677-3106

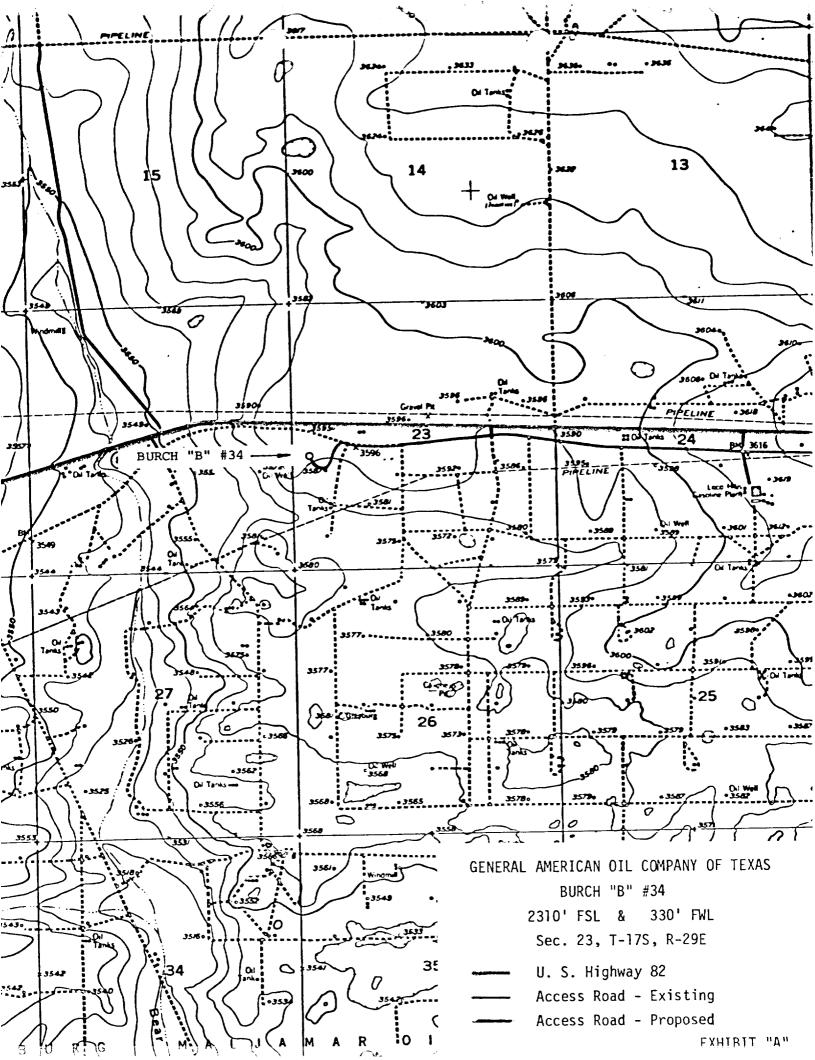
XII. CERTIFICATION

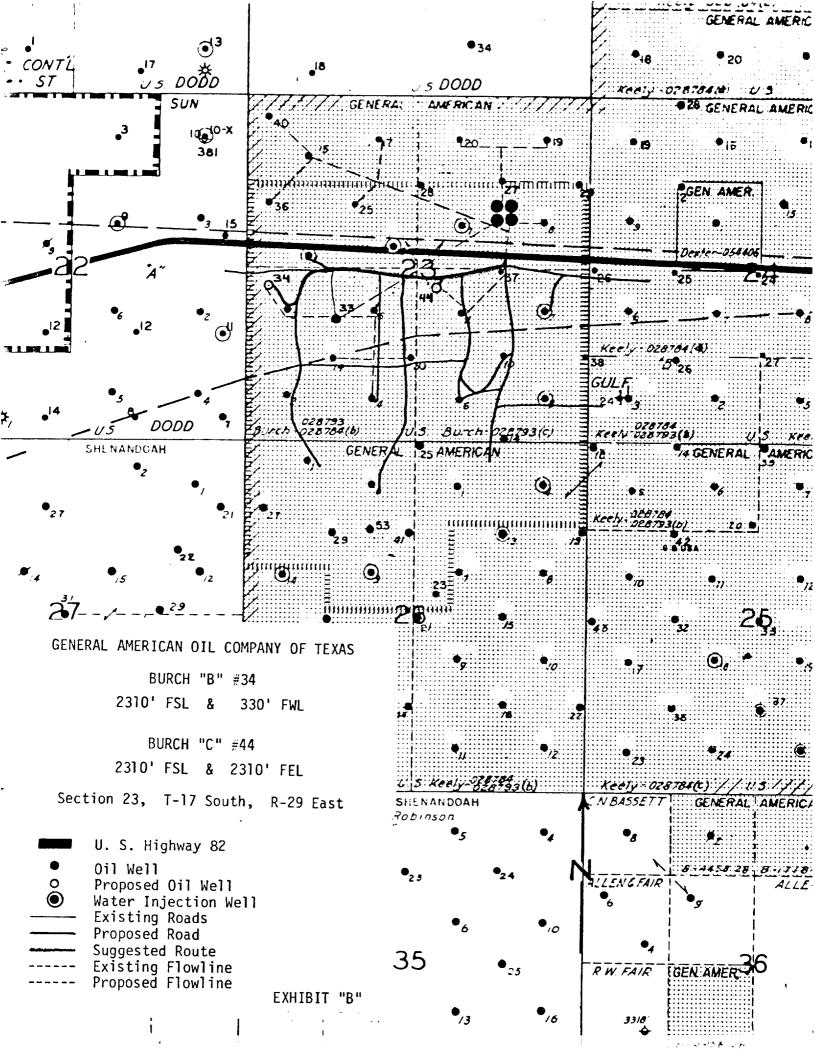
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work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

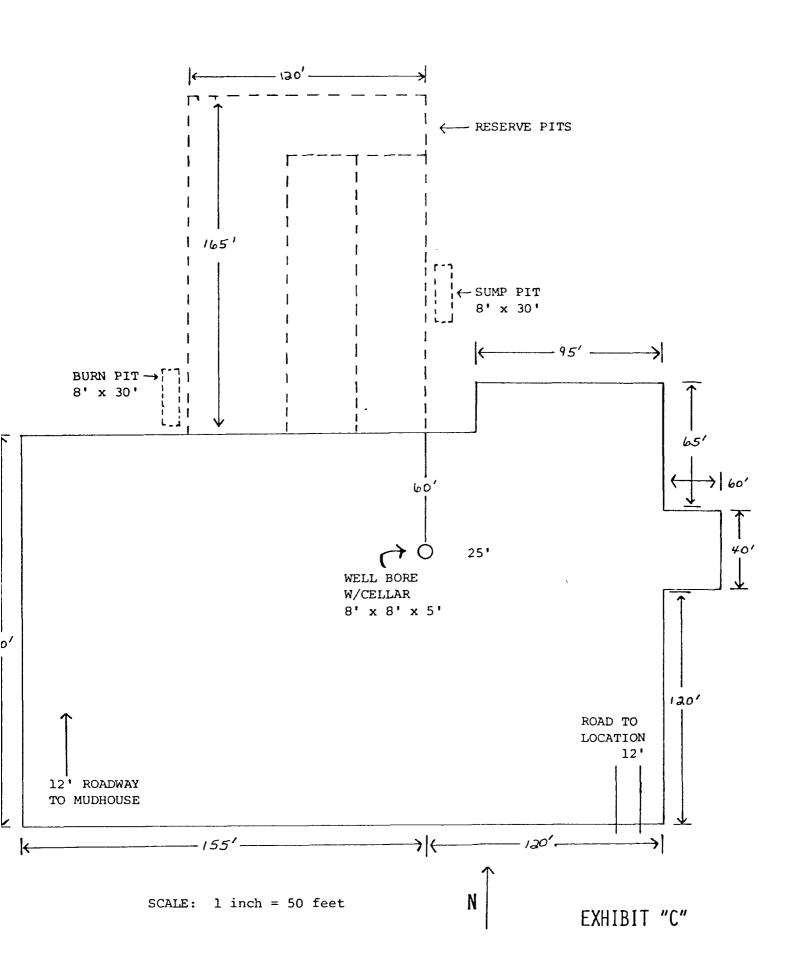
MSS/mjc

Lendell M. Naukina

Date







ACA

Llano Estacado Center for Advanced Professional Studies and Research Eastern New Mexico University Portales, New Mexico 88130



GAOC RECEIVED MAY 26 1981

Archaeological Clearance Report for General American Oil Company

Price No. 2
Road to Price No. 2
Birch "C" No. 44
Road to Birch "C" No. 44
Birch "B" No. 34
Road to Birch "B" No. 34

F81-258

by Terry Fifield

Edited and Submitted by Dr. Colleen M. Beck Director

May 21, 1981

Birch "B" No. 34

Location

The proposed well pad is located 4.1 miles west of Loco Hills, New Mexico, in the Pecos River Valley. The pad measures 400 X 400 feet (121.9 X 121.9 meters) and is situated as follows:

NW 1/4 SW 1/4, Section 23, T17S R29E, NMPM, Eddy County, NM (BIM)

Plat: Figure 7

Map Reference: USGS Red Lake SE Quadrangle, 7.5 minute series, 1955 (figure 8)

Terrain

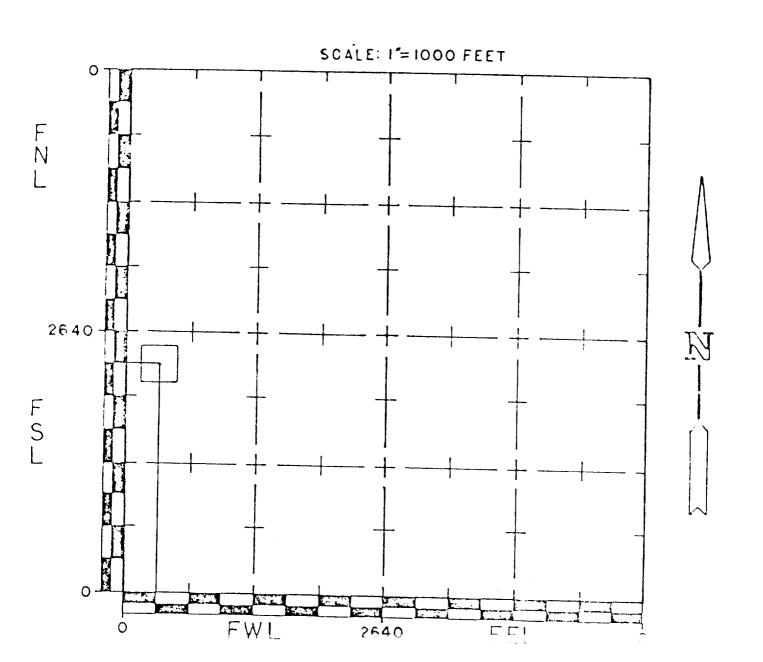
The proposed well pad is located in the Pecos River Valley, 0.8 miles east of Bear Grass Draw. It is situated on an undulating alluvial plain overlain by low dunes. The elevation is 3590 feet (1094.2 meters). The soil encountered in the area is predominantly a calcareous loamy sand. Taxonomically, it can be classified as a member of the haplargids-torripsamments association. Lithic inclusions consist of abundant amounts of small caliche fragments.

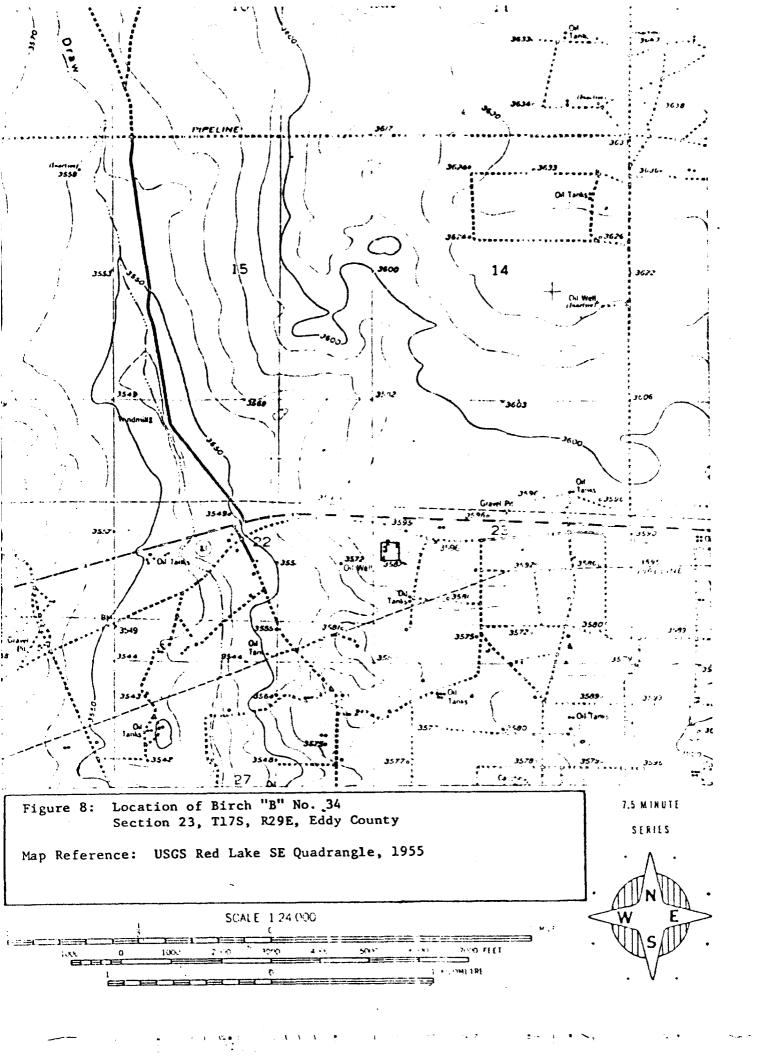
Floristics

ACA encountered a moderate floral assemblage at this location. The density of the vegetation in the area is approximately 35 percent, $\frac{1}{2}$

AGENCY FOR ONSERVATION ARCHAEOLOGY WELL LOCATION SCHEMATIC

COMPANY: General	American Oil LEASE: Birch	"E" WE	LL NO.:34
<u>2310</u> FEET F	ROM THE S LINE 330	FEET FROM	THE E LINE
	TOWNSHIP: T178		
	STATE:		
OWNERSHIP: BL	M		





ACA F81-258

consisting primarily of shrubs. The dominant species is broom snakewed (<u>Gutierrezia Sarothrae</u>). Among other species present are javelina bush (<u>Condalia ericoides</u>), mesquite (<u>Prosopis juliflora</u>), and sand sage (<u>Artemisia filifolia</u>).

Cultural Resources

During this survey ACA did not encounter any archaeological sites. However the following isolated manifestations were recorded:

IM-2: is a red chert flake, found 25 feet from the north line and 15 feet from the east line.

IM-3: is a red quartzite flake, found 173 feet from the west line and on the north line.

IM-4: is a black quartzite flake, found 92 feet from the north line and 80 feet from the west line.

IM-5: is a red quartzite flake, found 20 feet from the south line and 22 feet from the west line.

A review of the National Register did not find any properties listed for this location.

Recommendations

ACA recommends clearance for the proposed well pad and suggests that construction be allowed to proceed as currently planned.

Road to Birch "B" No. 34

Location

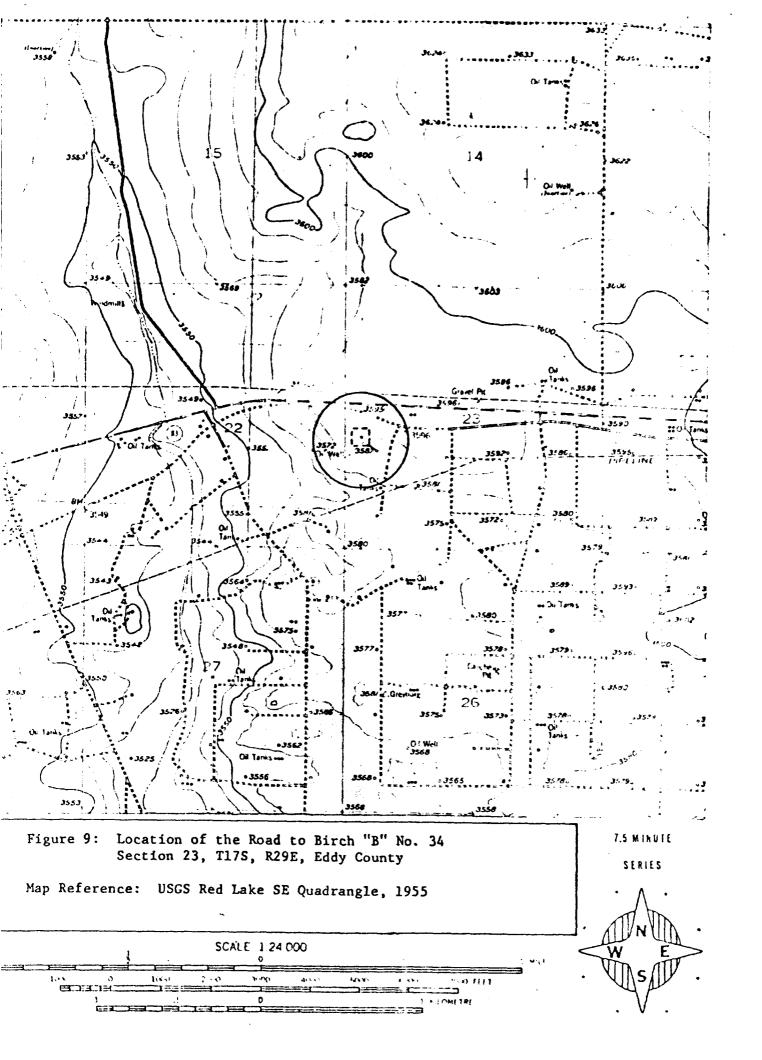
The proposed access road is located 4.1 miles west of Loco Hills, New Mexico, in the Pecos River Valley. The access road measures 50 X 240 feet (15.2 X 73.2 meters) and is situated as follows:

NW 1/4 SW 1/4, Section 23, T17S R29E, NMPM, Eddy County, NM (BIM)

Map Reference: USGS Red Lake SE Quadrangle, 7.5 minute series, 1955 (figure 9)

Terrain

The proposed access road is located in the Pecos River Valley, 0.8 miles east of Bear Grass Draw. It is situated on an undulating alluvial plain overlain by low dunes. The elevation varies from 3588 to 3591 feet (1093.6 to 1094.5 meters). The soil encountered in the area is



ACA F81-258

predominantly a calcareous loamy sand. Taxonomically, it can be classified as a member of the haplargids-torripsamments association. Lithic inclusions consist of abundant amounts of small caliche fragments.

Floristics

ACA encountered a moderate floral assemblage at this location. The density of the vegetation in the area is approximately 35 percent, consisting primarily of shrubs. The dominant species is broom snakeweed (<u>Gutierrezia Sarothrae</u>). Among other species present are javelina bush (<u>Condalia ericoides</u>), and mesquite (<u>Prosopis juliflora</u>).

Cultural Resources

 ${\it NCA}$ did not encounter any archaeological sites or isolated manifestations, either within or near the proposed facility.

A review of the National Register did not find any properties listed for this location.

Recommendations

NCA recommends clearance for the proposed access road and suggests that construction be allowed to proceed as currently planned.

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