

NM OIL CONS. COMMISSION
Artesia, N.M. 88210
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN DUPLICATE*
(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-R1425.

30-015-24132

C/SF
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-0467934
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR General American Oil Company of Texas		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. Box 128 Loco Hills, New Mexico 88255		8. FARM OR LEASE NAME Maddren Deep Unit "B"
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 660' FSL and 2180' FEL At proposed prod. zone		9. WELL NO. #1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 1.6 Miles Southeast of Loco Hills, New Mexico 88255		10. FIELD AND POOL, OR WILDCAT Cedar Lake Morrow
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1040'	16. NO. OF ACRES IN LEASE 320	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 27, T-17S, R-30E
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 400'	19. PROPOSED DEPTH 11,550	12. COUNTY OR PARISH Eddy
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3589.9 Ground Level		13. STATE New Mexico
20. ROTARY OR CABLE TOOLS Rotary		17. NO. OF ACRES ASSIGNED TO THIS WELL 320
22. APPROX. DATE WORK WILL START* April 15, 1982		

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" OD	48#	520'	Circulate
11"	8-5/8" OD	32#	3600'	700 sacks
7-7/8"	5-1/2" OD	17# & 20#	11550'	400 sacks

We propose to drill this well to 11,550' and complete in Morrow formation.

All zones indicating porosity will be acidized or sand fraced.

GAS NOT DEDICATED

MUD PROGRAM

Interval	Type Mud	Weight	Viscosity	W.L.
0' - 500'	Fresh Water	8.4 - 8.6	30 - 32	NC
500' - 3,600'	Salt Water	8.8 - 9.0	28 - 30	NC
3,600' - 7,000'	Fresh Water	8.4 - 8.6	28 - 30	NC
7,000' - 9,600'	KCL Fluid	8.6 - 9.3	30 - 36	10 - 15 cc
9,600' - 11,550'	KCL & Drispac	9.1 - 9.6	33 - 36	4 - 6 cc

IN ABOVE SPACE DESCRIBE PROPOSED 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.

24.

SIGNED Randall M. Hawkins TITLE Field Superintendent DATE March 22, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED
(Orig. Sgd.) GEORGE H. STEWART

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

MAR 30 1982

FOR
JAMES A. GILLHAM
DISTRICT SUPERVISOR

See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

GAOC
RECEIVED
MAR 04 1982
NEW MEXICO

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

All distances must be from the outer boundaries of the Section

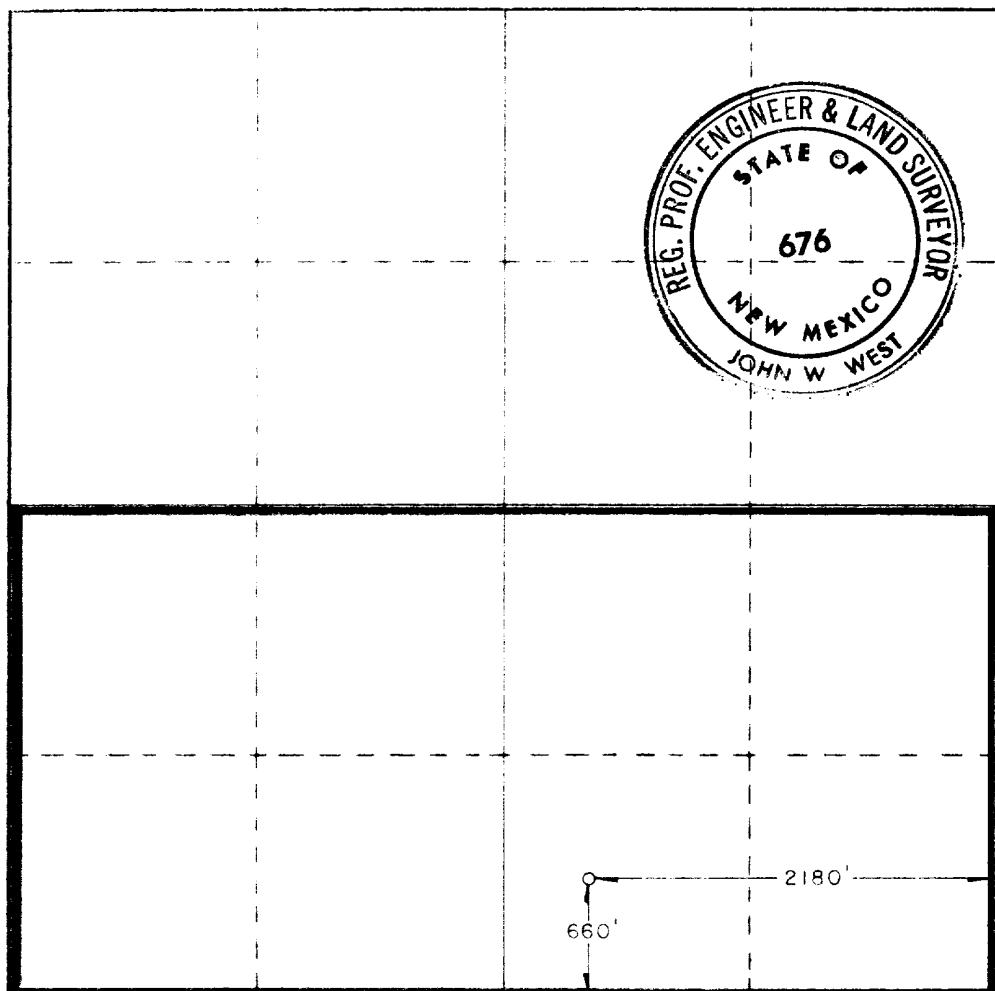
Operator General American Oil Co.		Lease Maddern Deep Unit B		Well No. 1	
East Letter 0	Section 27	Township 17 South	Range 30 East	County Eddy	
Actual Footage Location of Well: 660 feet from the south line and 2180 feet from the east line					
Ground Level Elev. 3589.9'	Formulating Formation Morrow		Footage Cedar Lake Morrow		Dedicated Acreage: 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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?

☐ Yes ☐ 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 N. Hawkins
Name

Lendell N. Hawkins

Position

Field Superintendent

Company

General American Oil Co. of Texas

Date

March 22, 1982

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

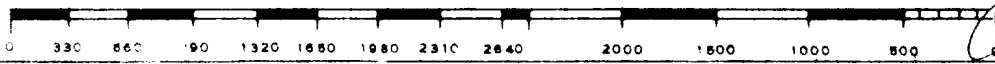
Date Surveyed

2-27-82

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6663
Ronald J. Eidson 3239



DRILLING PROGNOSIS

MADDREN DEEP UNIT "B" #1
CEDAR LAKE MORROW
EDDY COUNTY, NEW MEXICO

I. OBJECTIVE: Drill a 11,550' offset to the Anadarko Production Company's Arnold Federal Comm. #1 to be completed in the Morrow Sand.

II. LOCATION:

A. 660'FSL and 2180'FEL of Section 27, Township 17-South, Range 30 East. Eddy County, New Mexico.

B. Elevations: Ground Level: 3589.9

III. BUDGET CLASSIFICATION: Exploratory

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

- A. 17-1/2" hole to 520' (To accomodate 13-3/8" OD Surface Casing).
- B. 11" hole to 3600' (To accomodate 8-5/8" OD Intermediate Casing).
- C. 7-7/8" hole to 11,550' into the top of the Mississippian Formation.
- D. Estimated drilling time: 60 days.
- E. Run Slope Test at each bit trip or 500' drilled interval or as directed by Company Representative.
- F. Drill pipe should be strapped out of hole before all cores, drill stem tests or logging.

V. DRILLING CONTRACT:

- A. Contractor: W.E.K. Drilling or Landis.
- B. Type Contract: Footage.
- C. Contract Depth: 11,550'.

VI. MUD PROGRAM:

<u>Interval</u>	<u>Type Mud</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>
0' - 500'	Fresh Water	8.4 - 8.6	30 - 32	NC
500' - 3,600'	Salt Water	8.8 - 9.0	28 - 30	NC
3,600' - 7,000'	Fresh Water	8.4 - 8.6	28 - 30	NC
7,000' - 9,600'	KCL Fluid	8.6 - 9.3	30 - 36	10 - 15 cc
9,600' - T.D.	KCL & Drispac	9.1 - 9.5	33 - 36	4 - 6 cc

Mud characteristics will be measured at the beginning of each tour or as directed by Company Representative and recorded on the Driller's Log. Contractor will record all mud additives on Driller's Log for each tour. Hole will be kept full on all trips, making certain hole takes proper amount of fluid.

VII. ESTIMATED GEOLOGICAL TOPS:

<u>Tops</u>	<u>Vertical Depth</u>	<u>Subsea Depth</u>
A. Lovington	3,530	+36
B. Glorietta	4,012	-446
C. Bone Springs	7,940	-4374
D. Wolfcamp	8,350	-4784
E. Cisco	9,440	-5874
F. Strawn	10,403	-6838
G. Atoka	10,530	-6965
H. Morrow	10,871	-7306
I. Barnett	11,440	-7875
J. Chester	11,468	-7903
K. TD	11,552	-7986

VIII. SAMPLES:

- A. Samples from 7,000' to T.D. or as directed by Company Representative.

IX. CORES AND DRILL STEM TEST:

- A. Cores - None proposed.

- B. Possible four drill stem tests to be run in Wolfcamp, Strawn and possibly two in the Morrow. All tests are to be run with tandem packers, safety joint, hydraulic jars and bumper sub. One quart samples of fluid recovered are to be taken: one at top, middle and bottom of fluid column. A portion of the bottom sample is to be submitted to Logging Company for determination of R_w prior to logging.

X. LOGS:

- A. Mud logging unit from 7,000' to T.D.
B. Wireline

	<u>Interval</u>
First Run:	
-LL3/SNP/caliper/gamma ray (one tool string)	500' - 3600'
Second Run:	
-Dual Laterolog/Micro SFL/gamma ray	3600' - T.D.
CNL/FDC/caliper/gamma ray	3600' - T.D.

Scales

Gamma ray	0 to 100
SNP/CDL/CNL	30% to -10%
LL3/DLL/MSFL	.02 to 2000

Presentation

First Run:	
-SNP/GR/Caliper	5" per 100'
-LL3/GR/Caliper	5" per 100'
Second Run:	
-DLL/MSFL/GR	2" and 5" per 100'
-CDL/CNL/GR/Caliper	2" and 5" per 100'

XI. CASING PROGRAM:

- A. Surface: 13-3/8" OD, H-40, 48#, Range 3 ST&C new casing to be set at 500' and cemented with 325 sacks of Class "C" cement with 1/4# Floccel and 2% CaCl. If necessary fill from top with redi mix to meet State requirements if cement does not circulate. Casing attachments: Guide shoe, and one centralizer on shoe joint. Howco weld shoe and first collar, and tack weld top of shoe and bottom of first collar. WOC time. 18 hours. Install casing flange and pressure test casing and BOP's to 600#. Note: On all cementing jobs (surface, intermediate and long string) catch 1 sample of each type cement used and water used for mixing. Save samples for analysis in case cement does not set properly.
- B. Intermediate: 8-5/8" OD, K-55, 32#, Range 3 ST&C new casing to be set at 3600' with a tail slurry of Class "H" cement with 5# salt, 10# sand, 1/2 of 1% CFR-2 and 1/4# Floccel per sack sufficient to cover the Red Sand, preceded by filler type cement. Casing attachments: Float shoe with insert float in first collar from bottom, 10 centralizers approximately 160' apart from 3600' to 2015' across Grayburg and San Andres zones. Howco weld and tack weld shoe and first collar. Hang weight of casing, as indicated on rig weight indicator at end of cement job on slips prior to cutting off casing. Reciprocate casing while cementing. Install casing spool. Nipple up BOP and test to 1000#. BOP's to be tested by independent testing company (Yellow Jacket) to the BOP's rated working pressure of 5000 psig prior to drilling into Wolfcamp formation. Be sure casing valve below BOP is open so casing is not pressured above its burst pressure during yellow jacket test.
- C. Production String:

0' - 400'	20#	N-80	LT&C
400' - 10,800'	17#	N-80	LT&C
10,800' - 11,550'	20#	N-80	LT&C

If casing is run shallower, casing design will be changed to effect savings accordingly.

Cementing production string will be with sufficient Class "H" cement to cover all zones of interest based on log calculations. Casing attachments, float shoe and float collar between first and second joint, centralizers in sufficient quantity to assure a good cement job over zones of interest. Howco weld float shoe, float collar, and tack bottom of first collar. Hang weight of casing, as indicated by rig weight indicator at end of cement job, on slips prior to cutting off casing. Reciprocate pipe while cementing.

XII. SAFETY PROGRAM:

The safety program will conform to the attached notice from the United States Geological Survey. In addition, the accumulator pressure is to be noted to the driller on the tour sheet at some time during each tour. B.O.P.E. will be tested at least once a week to insure proper working condition.

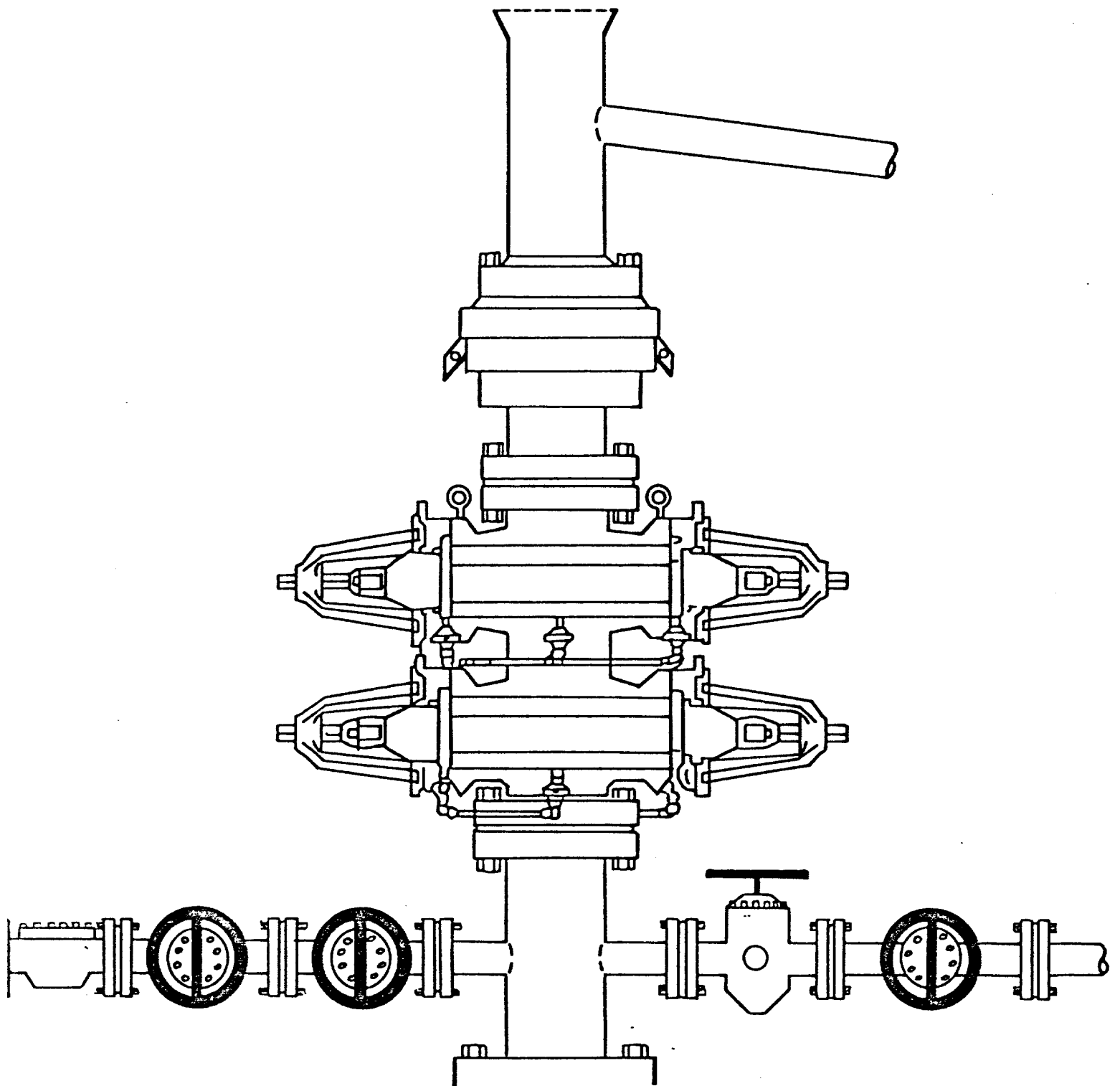
XIII. THIRD PARTY SERVICES

- A. Drilling Contractor: W.E.K. Drilling or Landis
- B. Mud Company: Marrs, DMI or IMCO
- C. Cementing Company: Halliburton or Western
- D. Logging Company: Dresser-Atlas or Schlumberger
- E. Stimulation Service: Halliburton or Western

LNH/bjw

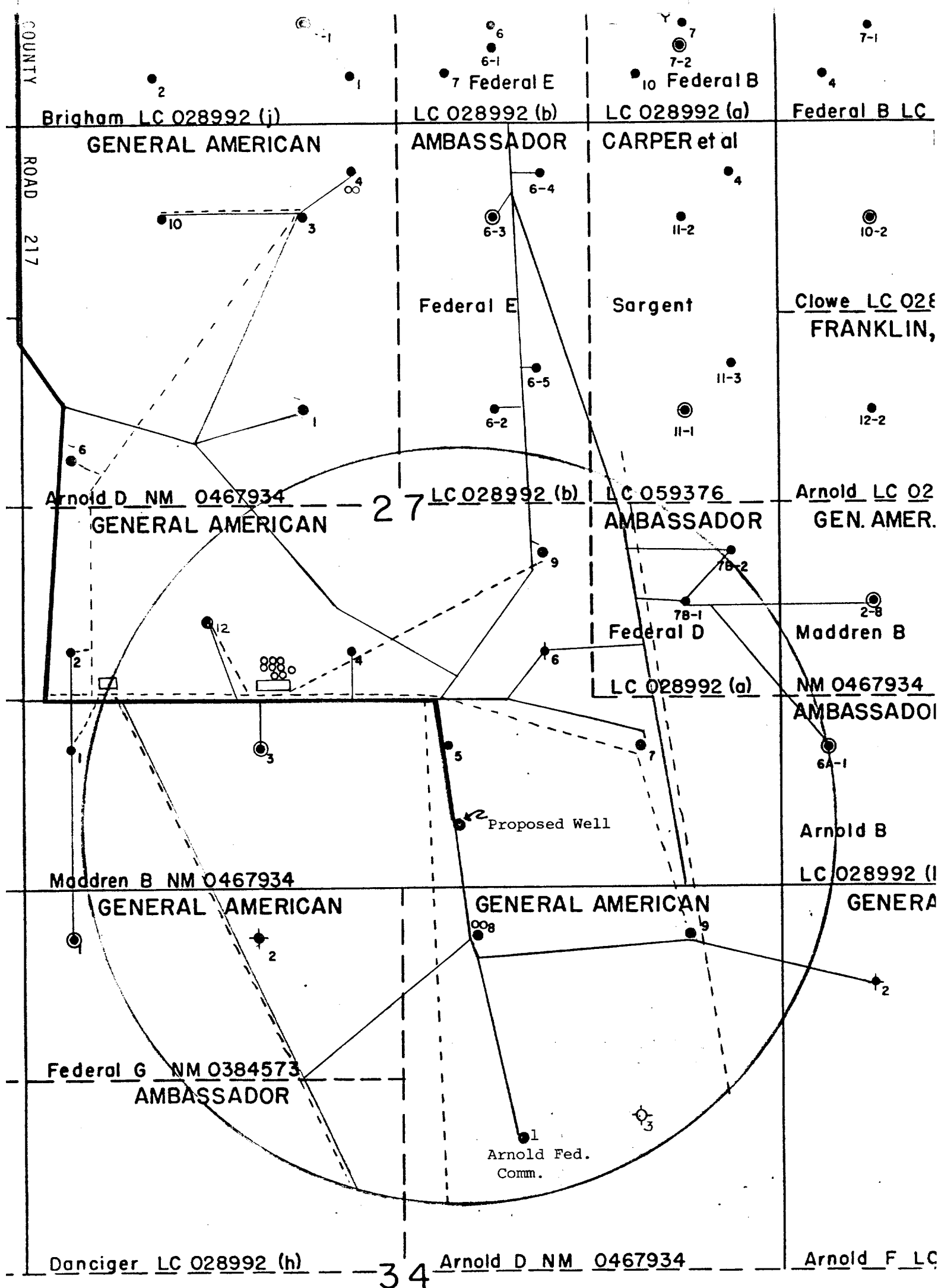
SUBMITTED BY: Randell M. Hawkins
DATE: 3-22-82

APPROVED BY: _____
DATE: _____



BLOWOUT PREVENTION EQUIPMENT

ONE SHAFFER LWS HYDRAULIC DOUBLE 10" x 1500
SERIES. ONE SHAFFER SPHERICAL 10" x 1500 SERIES,
CHOKE MANIFOLD 4" x 1500 SERIES FLANGED
CONNECTIONS. PAYNE 4 VALVE ACCUMULATOR CLOSING UNIT.



- OIL WELLS
- EXISTING ROADS
- - - - EXISTING FLOWLINES
- - - - EXISTING PIPELINES

SUGGESTED ROUTE TO LOCATION — 0.3 MILES SOUTH ON COUNTY ROAD 217 CONTINUE EAST—
SOUTHEAST FOR 2 MILES TURN SOUTH FOR 0.1 MILES LOCATION IS ON THE EAST.

∞ TANK BATTERIES

EXHIBIT "B"

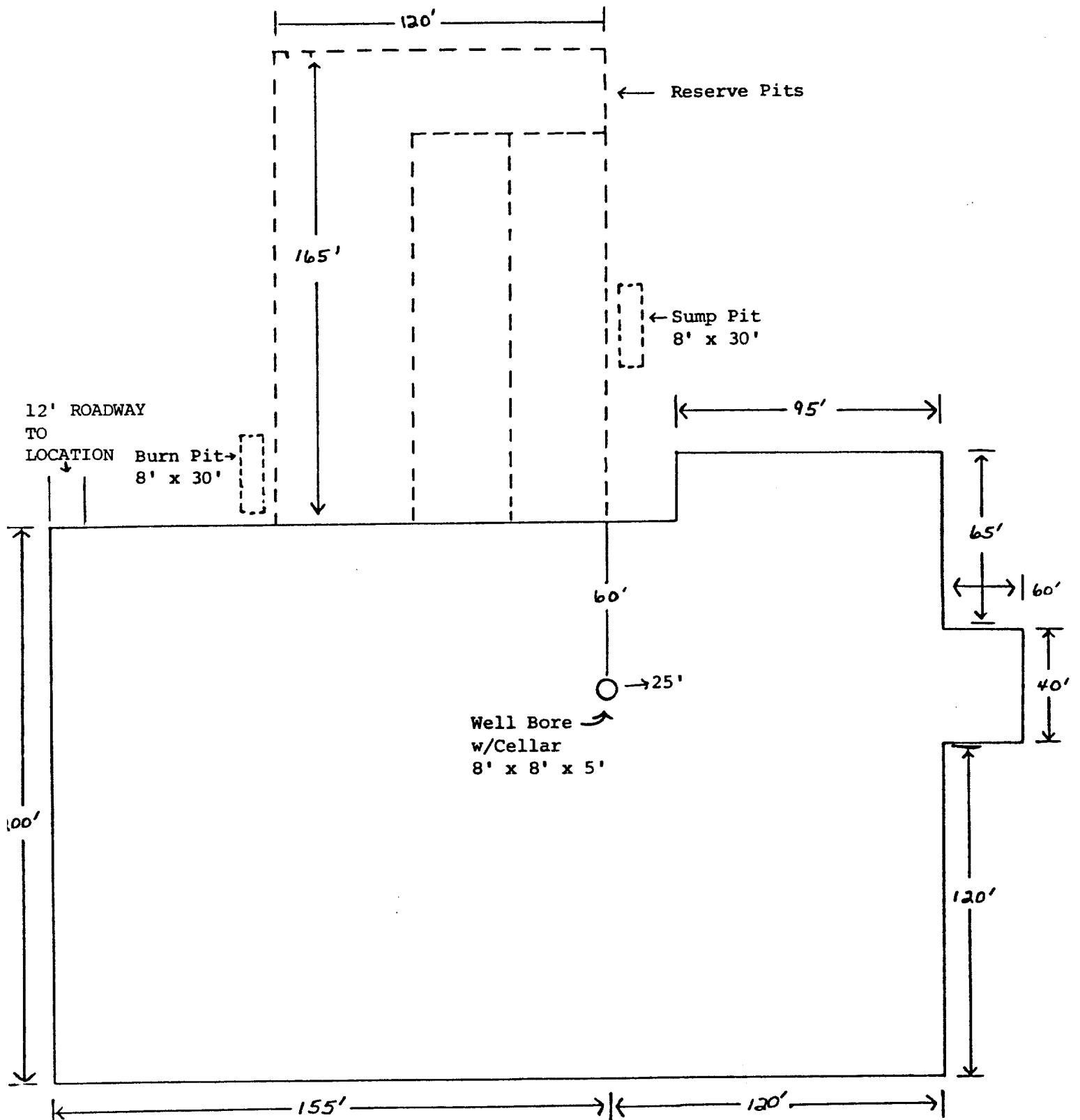
SCALE: 1" = 800'

GENERAL AMERICAN OIL COMPANY OF TEXAS

MADDREN DEEP UNIT "B" #1

SECTION 27, TOWNSHIP 17-SOUTH, RANGE 30-EAST





SCALE: 1 inch = 50 feet

EXHIBIT "C"