7-13

DEPARTMENT OF THE INTERIOR
BUREAU O. ID MANAGEMENT
1301 W. Grand Ave.
Artesia, NM 88210

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: NMNM67980

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ]

7. UNIT AGREEMENT NAME: 11708

b. TYPE OF WELL
OIL WELL [X] GAS WELL [ ] OTHER
SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME, WELL NO.: SANTA FE FEDERAL # 11

9. API WELL NO.: 30-015-32526

2. NAME OF OPERATOR: RAY WESTALL 18862

10. FEILD AND POOL, OR WILDCAT: HERRADURA BEND DELEWARE

3. ADDRESS AND TELEPHONE NO.: P.O. BOX 4, LOCO HILLS, NEW MEXICO 88255

11. SEC., T., R., OR BLK AND SURVEY OR AREA: SEC. 35, T22S, R-28E

4. LOCATION OF WELL (REPORT LOCATION CLEARLY AND IN ACCORDANCE WITH ANY STATE REQUIREMENTS)
AT SURFACE: 2160' FNL & 1650' FEL
AT PROPOSED PROD. ZONE: U/L H

12. COUNTY OR PARRISH: EDDY
13. STATE: NM

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2002
OCD - ARTESIA

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 12 MILES SE OF CARLSBAD

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1650'	360	40
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
420	6400'	ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, ect.): 3103' GR

22. APPROX. DATE WORK WILL START: ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WT PER FT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8" J-55 LT&C	24	450'	400 SXS CIRC
7 7/8"	5 1/2" J-55 LT&C	15.5	6400'	1500 SXS CIRC

ALL CASING WILL BE NEW, OR USED MEETING BLM SPECS.
CEMENT WILL BE CICULATED ON 13 3/8" AND 8 5/8" CASING.
CEMENT QUANTITIES AND ADDITIVES ARE SUBJECT TO CHANGE DUE TO HOLE CONDITIONS.

Carlsbad Controlled Water Basin

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

PROPOSED MUD PROGRAM

0' - 450'	FRESH WATER AND SPUD MUD
450' - TD	BRINE WATER 9.6-10#

MUD PROGRAM SUBJECT TO CHANGE DUE TO HOLE CONDITIONS

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

24.
SIGNED: Reesa Mathews TITLE: PRODUCTION SECRETARY DATE: 10/04/02

(THIS SPACE FOR FEDERAL OR STATE OFFICE USE ONLY)

PERMIT NO. _____ APPROVAL DATE _____

APPLICATION APPROVAL DOES NOT WARRANT OR CERTIFY THAT THE APPLICANT HOLDS LEGAL OR EQUITABLE TITLE TO THOSE RIGHTS IN THE SUBJECT LEASE WHICH WOULD ENTITLE THE APPLICANT TO CONDUCT OPERATIONS THEREON

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY: /s/ Mary J. Rugwell FOR TITLE: FIELD MANAGER DATE: NOV 05 2002

TITLE 18 U.S.C. SECTION 1001, MAKES IT A CRIME FOR ANY PERSONS KNOWINGLY AND WILLFULLY TO MAKE TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES ANY FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS OR REPRESENTATIONS AS TO ANY MATTER WITHIN ITS JURISDICTION

APPROVAL FOR 1 YEAR

Form 3160-3 (July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

RECEIVED
2000 OCT 23 PM 3:10
BUREAU OF LAND MANAGEMENT
CARLSBAD RESOURCE AREA

5. LEASE DESIGNATION AND SERIAL NO.: NM 67980
6. IF INDIAN, ALLOTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME, WELL NO.: SANTA FE FEDERAL #11
9. API WELL NO.:
10. FIELD AND POOL, OR WILDCAT: E. HERRADURA BEND DELAWARE
11. SEC., T., R., M., OR BLK AND SURVEY OR AREA: SEC. 35 T-22-S R-28-E
12 COUNTY OR PARISH: EDDY
13. STATE: NEW MEXICO

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: RAY WESTALL

3. ADDRESS AND TELEPHONE NO.: P.O. BOX 4, LOCO HILLS, NM 88255 (505)677-2370

4. LOCATION OF WELL (REPORT LOCATION CLEARLY AND IN ACCORDANCE WITH ANY STATE REQUIREMENTS)
AT SURFACE: 2160 ~~2310'~~ FNL & 1650' FEL
AT PROPOSED PROD. ZONE: SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 12 MILES SE OF CARLSBAD NM

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1650'	360	40
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
420	6400'	RT

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3103 GR.
APPROX. DATE WORK WILL START: 01-Jan-00

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WT PER FT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4'	8 5/8" J-55 LT&C	24#	450'	400 SXS CIRCULATED
7 7/8"	5 1/2" J-55 LT&C	15.5#	6400'	1500 SXS CIRCULATED

WITNESS

CARLSBAD CONTROLLED WATER BASIN

ALL CASING WILL BE NEW, OR USED MEETING BLM SPECS.

CEMENT QUANTITIES AND ADDITIVES ARE SUBJECT TO CHANGE DUE TO HOLE CONDITIONS.
A SERIES 900 BOP WILL BE INSTALLED ON THE 8 5/8" CASING AND TESTED PRIOR TO DRILLOUT

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS

PROPOSED MUD PROGRAM

0-450'	FRESH WATER & SPUD MUD
450-TD	BRINE WATER 9.6-10#

MUD PROGRAM SUBJECT TO CHANGE DUE TO HOLE CONDITIONS

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 _____ TITLE GEOLOGIST DATE 10/20/00

(THIS SPACE FOR FEDERAL OR STATE OFFICE USE)

PERMIT NO. _____ APPROVAL DATE _____

APPLICATION APPROVAL DOES NOT WARRANT OR CERTIFY THAT THE APPLICANT HOLDS LEGAL OR EQUITABLE TITLE TO THOSE RIGHTS IN THE SUBJECT LEASE WHICH WOULD ENTITLE THE APPLICANT TO CONDUCT OPERATIONS THEREON.

CONDITIONS OF APPROVAL IF ANY:

APPROVED BY Tony D. Bray TITLE Assistant Field Manager, Lands and Minerals DATE 11/3/00

APPROVED FOR 1 YEAR

TITLE 18 U.S.C. SECTION 1001, MAKES IT A CRIME FOR ANY PERSONS KNOWINGLY AND WILLFULLY TO MAKE TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES ANY FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR REPRESENTATIONS AS TO ANY MATTER WITHIN ITS JURISDICTION

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name

[4] Property Code	[5] Property Name	[6] Well Number
	Santa Fe Federal	11

[7] OGRID No.	[8] Operator Name	[9] Elevation
	Ray Westall Operator	3095

[10] Surface Location

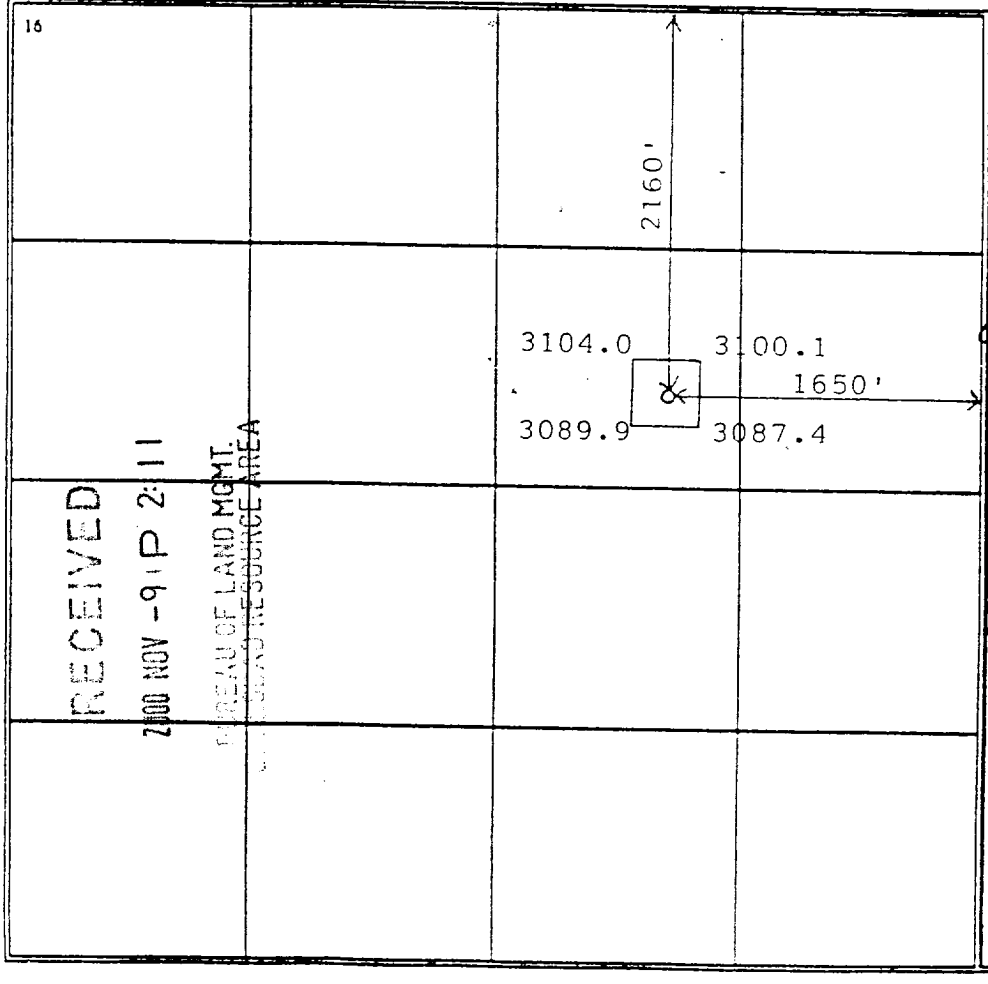
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	35	22s	28e		2160	North	1650	East	Eddy

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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2000 NOV -9 P 2:11
BUREAU OF LAND MGMT.
ROSWELL RESOURCE AREA

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature

Printed Name: RANDALL HARRIS

Title: GEOLOGIST

Date: 11/8/00

[18] SURVEYOR CERTIFICATION

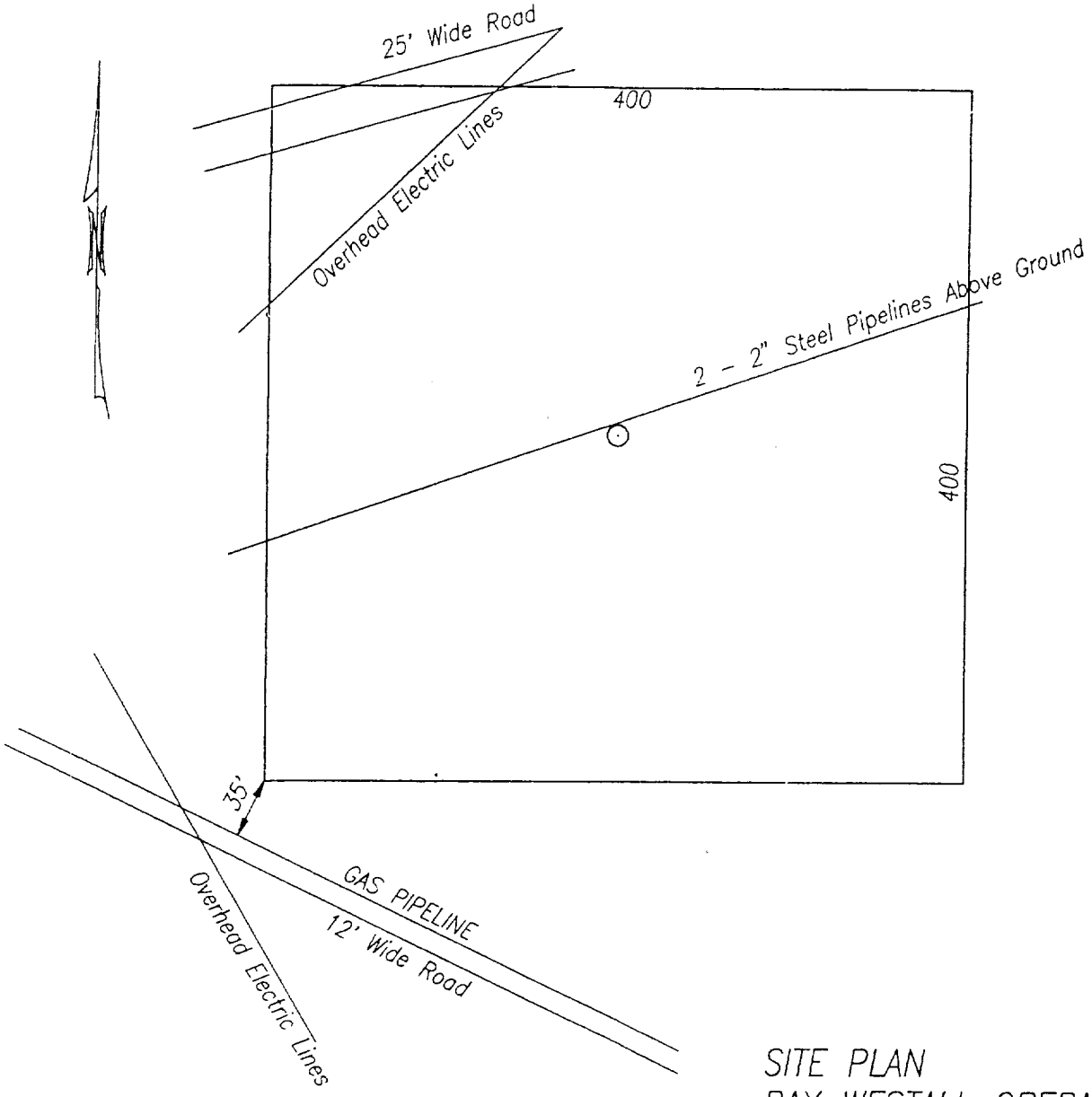
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: November 2000

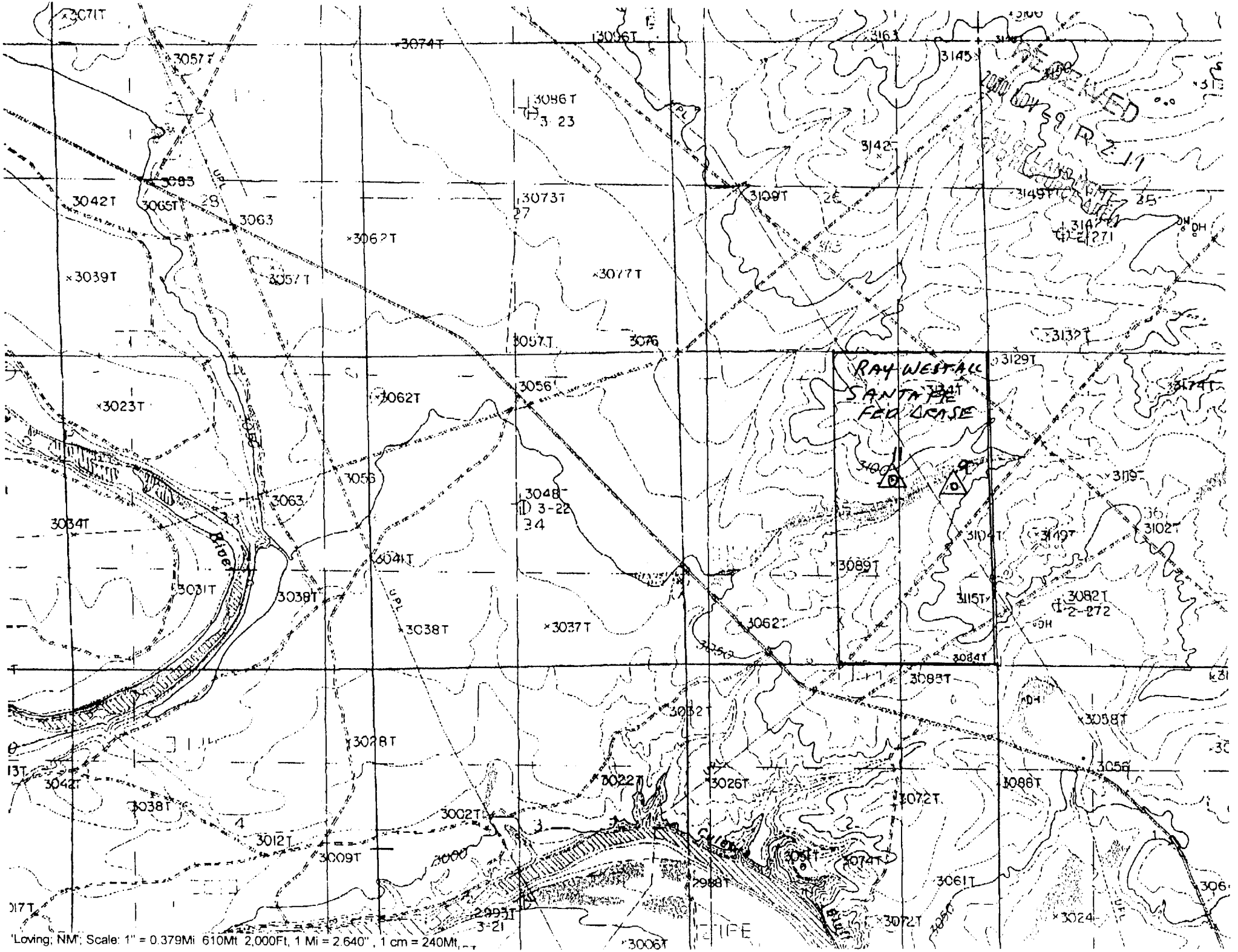
Signature and Seal of Professional Surveyor: P. R. PATTON

NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number: 8112



SITE PLAN
RAY WESTALL OPERATING
SANTA FE FEDERAL WELL No. 11
2160 FNL 1650 FEL
SEC. 35, T22S, R28E
EDDY Co., NM



'Loving; NM'; Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640", 1 cm = 240Mt,

APPLICATION FOR DRILLING

Ray Westall
Santa Fe Federal No. 11
2310' FNL & 1650' FEL
Section 35
Township 22 South, Range 28 East
Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, Ray Westall submits the following ten items of pertinent information in accordance with BLM requirements:

1. The geological surface formation is Quaternary.

2. The estimated tops of geologic markers are as follows:
   Bell Canyon 2800'
   Cherry Canyon 3750'
   Brushy Canyon 4800'
   Bone Springs 6325

3. The estimated depths at which anticipated water, oil & gas formations are expected to be encountered:
   Water 0-180'
   Oil & Gas Zones 2800-6325

4. Proposed casing program: See 3160-3

5. Pressure Control Equipment:
   A 900s BOP will be installed on the 8 5/8" casing and tested prior to drill out.

6. Mud Program:
   Fresh water in surface hole.
   Brine in production hole.

7. Auxiliary Equipment: None
8. Logging Program: CNL/FDC/GR, DLL.

9. No abnormal pressures or temperatures are anticipated. Estimated BHP is 3100#, Estimated BHT is 125 F.

10. Anticipated Starting date: 01/01/01
    Duration: 12 Days drilling
    5 Days completion

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

RAY WESTALL
SANTA FE FEDERAL NO. 11

This plan is submitted with form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal cam be made of the environmental effect associated with the operation.

1. Existing Roads.
   Exhibit A is a portion of a USGS topographic map showing the wells and roads in the vicinity of the proposed location.

2. Planned Access Road.
   Approximately 120' of new road will be constructed north of existing pipeline road.

3. Location of Existing Wells.
   Exhibit B is a topo map showing the existing wells.

4. Location of existing/or proposed facilities:
   If productive a 3" SDR 7 poly line will be laid along existing ROW to the battery located on the Santa Fe Federal #1 location. A 4 phase power line and poles will be routed along the existing ROW paralleling the road.

5. Location and Type of Water Supply.
   It is planned to drill the proposed well with fresh and brine water system. The water will be obtained from commercial sources and will be hauled to the location by truck.

6. Source of Construction Materials.
   The location and road will be from pit excavation and or will be hauled in from an approved caliche pit.

7. Methods of Handling Waste Disposal.
   A. Drill cuttings will be disposed of in the reserve pit.
   B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
   C. Produced water during operations will be stored in reserve pits until dry.
   D. Oil produced during operations will be stored in tanks until sold.
   E. Current laws and regulations pertaining to the disposal of human waste will

be complied with.

F. Trash, waste paper, garbage and junk will be stored in a wire cage preventing blowing or scattering by the wind. After drilling and completion all waste will be removed to an approved site.

8. Ancillary Facilities

None required.

9. Wellsite Layout.

Exhibit C shows the relative location and dimensions of the well pad, the reserve pit, a 400' X 400' area has been staked and flagged.

10. Plans For Restoration of The Surface.

A. After finishing drilling and completion operations all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the Wellsite in as aesthetically pleasing a condition as possible.

B. Unguarded pits, if any containing fluids will be fenced until they have been filled.

C. If the proposed well is non-productive, all rehabilitation and or vegetation requirements of the BLM and USGS will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. Other Information:

A. Topography: The land surface in the vicinity of the Wellsite is sandy loam with caliche hills and outcrops.

B. Flora and Fauna: the vegetation cover consists of prairie grass, greasewood and miscellaneous desert growth. No wildlife was observed, but wildlife in the area probably includes those typical of semi-arid desert land. The area is used for cattle grazing.

C. There are no ponds, lakes or rivers in the area.

D. There are no inhabited dwellings in the vicinity of the proposed well.

E. Surface ownership is federal.

F. Evidence of archeological sites has been reported and previously filed by Archaeological Survey Consultants.

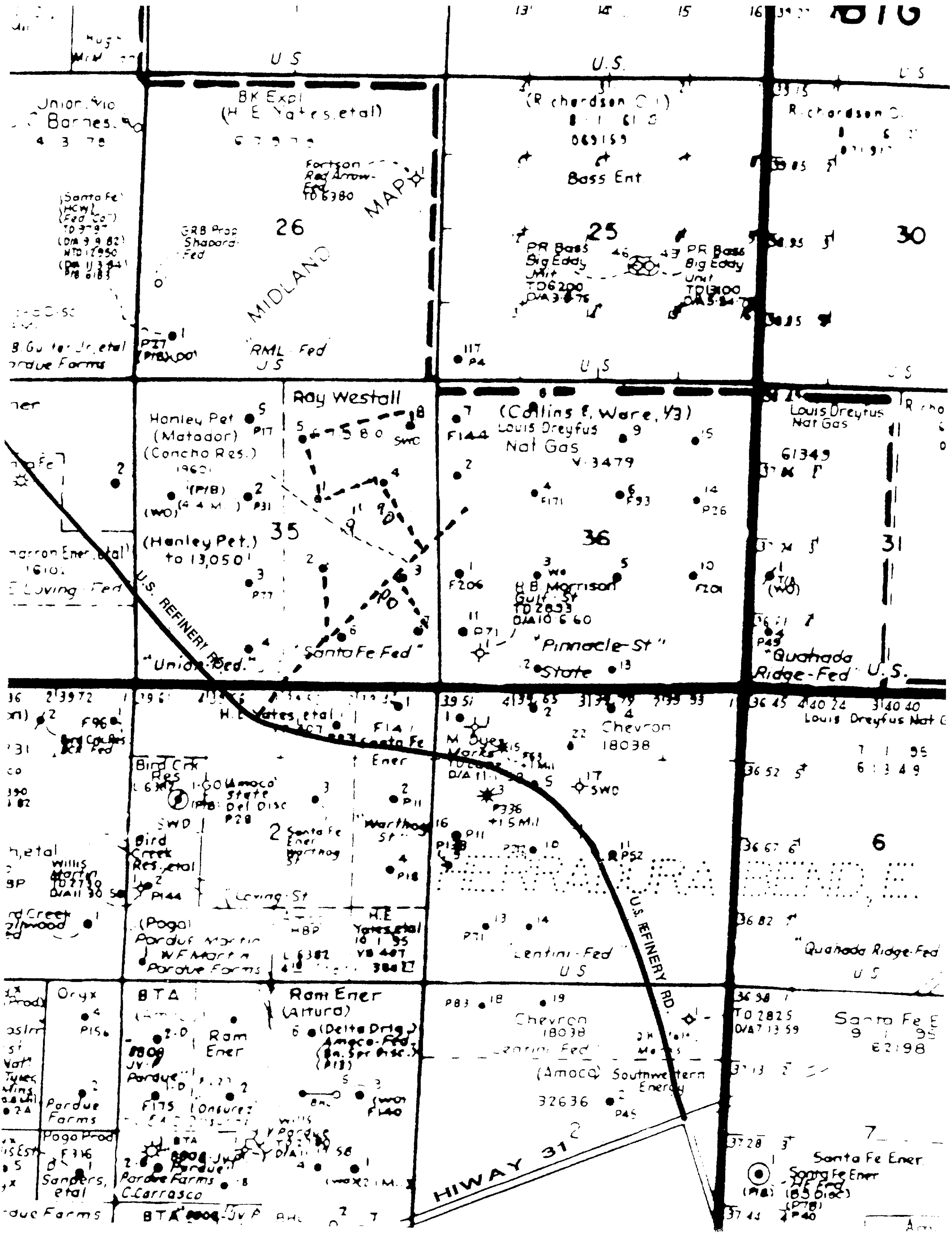
12. Operator's Representative:

Ray Westall
P.O. Box 4
Loco Hills, NM 88255
(505) 677-2370

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operation proposed herein will be performed by the operator and its' subcontractors in conformity with this plan and the terms and conditions under witch is approved

Randall L. Harris
Geologist



U.S.
BK Expl
(H E Yates, etal)
(Richardson Oil)
Bass Ent
Union
Barnes
Fortson
Red Arrow
TD 6380
MIDLAND
MAP
26
25
30
GRB Prop
Fed
PR Bass
Big Eddy
Unit
TD6200
TD13100
RML Fed
Ray Westall
(Collins & Ware, 1/3)
Louis Dreyfus
Nat Gas
V-3479
61349
Hanley Pet
(Matador)
(Concho Res.)
(Hanley Pet.)
to 13,050'
35
36
31
U.S. REFINERY RD.
"Union Fed."
"Santa Fe Fed"
H B Morrison
TD 2853
"Pinnacle St" State
"Quahada Ridge-Fed"
Louis Dreyfus Nat Gas
H E Yates, etal
Santa Fe Ener
Chevron
18038
Bird Creek Res
Amoco State
Del Disc
SWD
2
Santa Fe Ener
Warthog St
Loving St
6
H.E Yates, etal
(Pogo)
Pardue Farms
Lentini - Fed
"Quahada Ridge-Fed"
Orgyx
BTA
Ram Ener
Ram Ener
(Delta Drlg.)
Amoco-Fed
(Amoco)
Southwestern Energy
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Pogo Prod
C.Carrasco
HIWAY 31
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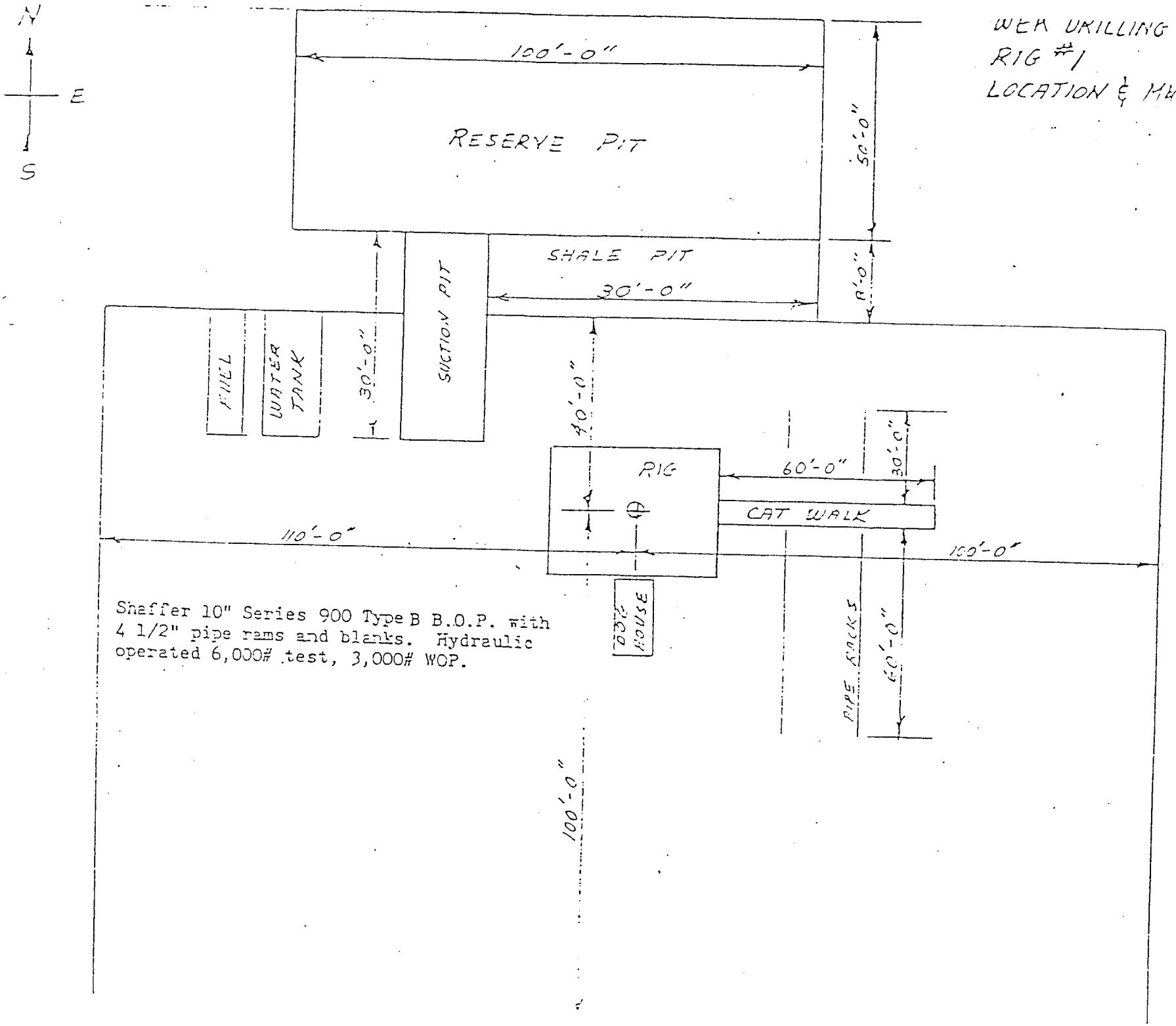
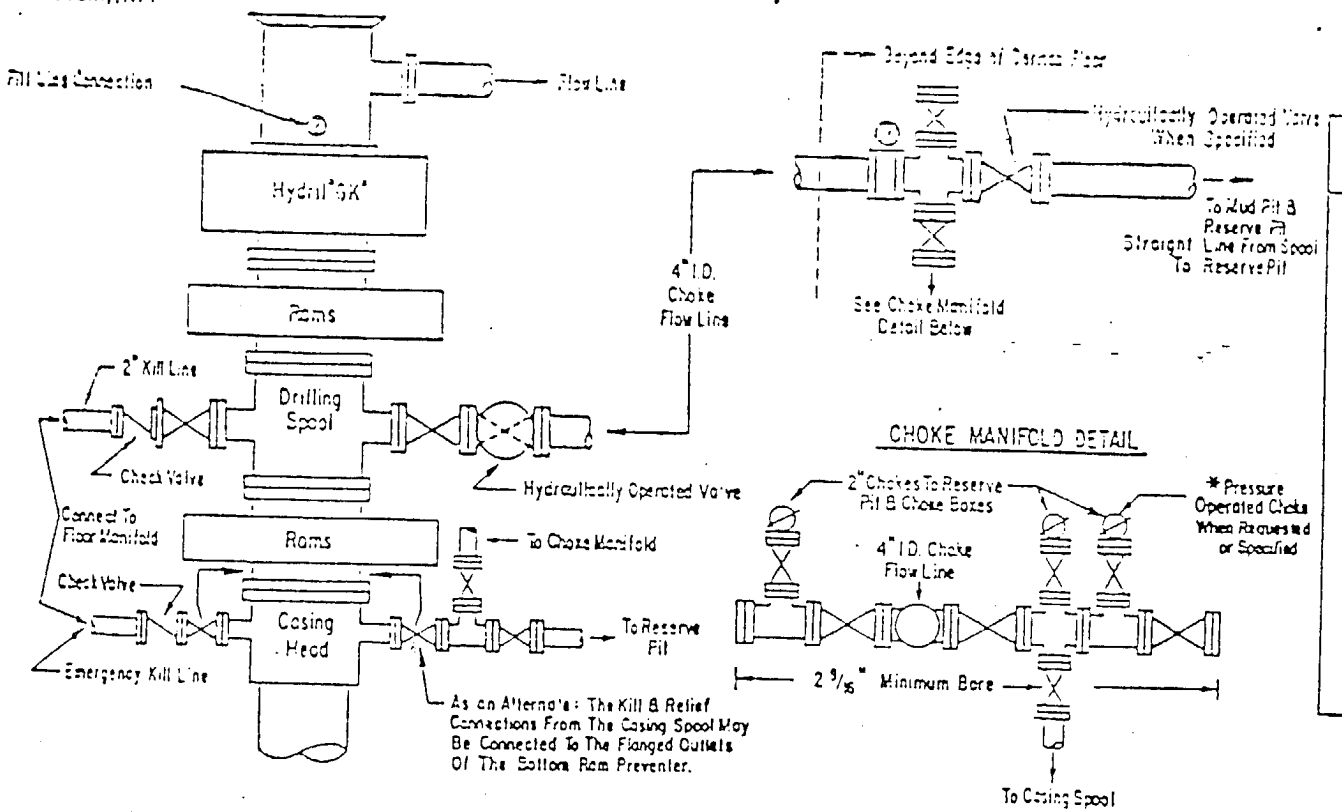
Santa Fe Ener
Santa Fe Ener
Pardue Farms



WEA DRILLING CO., INC.
RIG #1
LOCATION & MUD PIT SPEC.

Shaffer 10" Series 900 Type B B.O.P. with 4 1/2" pipe rams and blanks. Hydraulic operated 6,000# test, 3,000# WOP.

DRAWING NO. 3
Revised April, 1971



ADDITIONS - DELETIONS - CHANGES SPECIFY

CHOKE MANIFOLD DETAIL

3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

The blowout preventer assembly shall consist of one blind ram preventer and one pipe ram preventer, both hydraulically operated, a Hydril "GK" preventer; valves; chokes and connections as illustrated. If a tapered drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing rams to fit the preventers are to be available as needed. If correct in size, the flanged outlets of the ram preventer may be used for connecting to the 4-inch I.D. choke flow line and kill line, except when air or gas drilling. The substructure height shall be sufficient to install a rotating blowout preventer.

Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continuous source of power, capable of fluid charging the total accumulator volume from the nitrogen precharge pressure to its rated pressure within _____ minutes. Also, the pumps are to be connected to the hydraulic operating system which is to be a closed system. (2) Accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive the aforementioned fluid charge. With the charging pumps shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-operated devices simultaneously within _____ seconds after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least _____ percent of the original. (3) When requested, an additional source of power, remote and equivalent, is to be available to operate the above pumps; or there shall be additional pumps operated by separate power and equal in performance capabilities.

The closing manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. Gulf Legion No.38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.

* To include derrick floor mounted controls.

HYDROGEN SULFIDE DRILLING PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel that are connected with the drilling or completion of a well within a known H2S area will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

A. The hazards and characteristics of hydrogen sulfide.

B. The proper use of personal protective equipment and life support systems.

C. The proper use of H2S detectors, alarms. warning systems, briefing areas, evacuation procedures, and prevailing winds.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H2S SAFETY EQUIPMENT AND SYSTEMS

All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S.

A. Well Control Equipment:

a. Choke manifold with a minimum of one remote choke.

b. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

D. Protective equipment for essential personnel:

a. Mark II Surviveair 30 minute units located in the dog house and at briefing areas, as indicated on well site diagram.

C. H2S detection and monitoring equipment:

a. Two portable monitors positioned on location for best coverage and response. These units have warning lights and sirens when high levels of H2S is detected.

D. Visual warning systems:

a. Wind direction indicators as shown on well site diagram.

b. Caution/Danger signs shall be posted on roads providing direct access to location.

E. Mud program:

a. There is no known high pressure in this drilling area or known high concentrations of H2S that would necessitate any special drilling fluids.

F. Metallurgy:

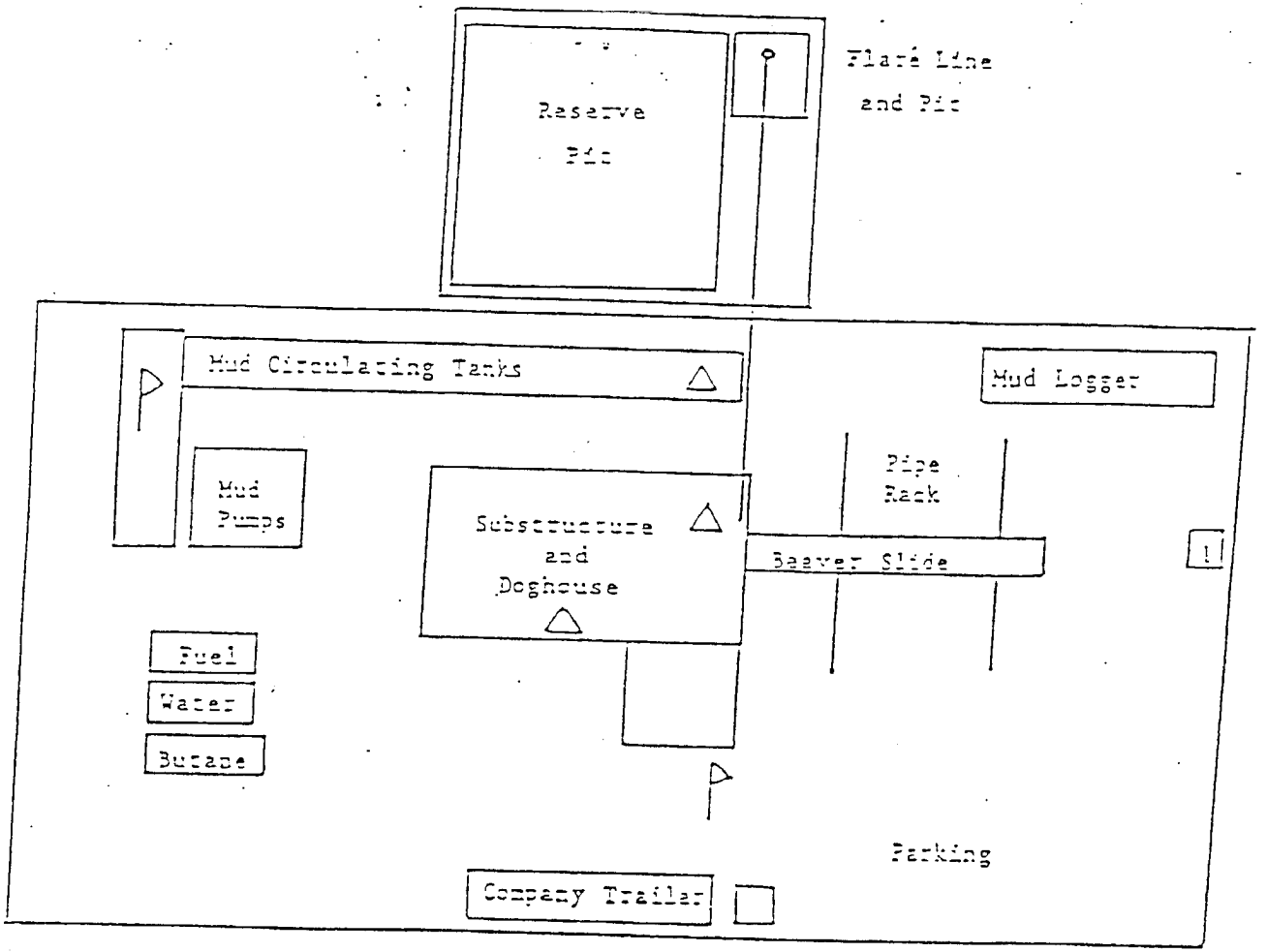
a. All drill stings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines and valves shall be suitable for H2S service.

G. Communication:

a. Radio communications in company vehicles including cellular telephone and 2-way radio.

H. Well testing:

a. There will be no DST's on this well.



△ – H2S Monitors with alarms at the bell nipple and shale shaker

– Wind Direction Indicators

□ – Safe briefing areas with caution signs and protective breathing equipment Min. 150 feet from wellhead, 1 designates primary area