

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-0509	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Bass Enterprises Production Company		7. UNIT AGREEMENT NAME	
3. ADDRESS AND TELEPHONE NO. P.O. Box 2760, Midland, Texas 79702 915-683-2277		8. FARM OR LEASE NAME, WELL NO. Golden "D" Federal #1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface: 775' 1650' FWL & 330' FNL Section 17, T21S, R29E Unit C At proposed prod. zone Same		9. API WELL NO.	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 15 miles east of Carlsbad, NM		10. FIELD AND POOL, OR WILDCAT South Golden Lane (Delaware)	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 330'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 17, T21S, R29E	
16. NO. OF ACRES IN LEASE 640		12. COUNTY OR PARISH 13. STATE Eddy NM	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40		18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1924'	
19. PROPOSED DEPTH 4800'		20. ROTARY OR CABLE TOOLS rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3361.6' GL		22. APPROX. DATE WORK WILL START* upon approval	

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
* 15"	11-3/4"	42#	750'	470 sx circ to surface
** 11"	8-5/8"	24#	3050'	950 sx tie back to 250'
7-7/8"	5-1/2"	14#	4800'	440 sx tie back to 2550'

10510-1
1-29-93
NEWLOC 2 API

* Surface to be set 50' above Salts in the Rustler Anhydrite.
** Intermediate to be set @ 3050' or in the top of Lamar Lime.

Drilling procedure, BOPE diagram, anticipated tops and surface use plans attached.

CERTIFIED P-154-194-274
APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

APR 7 1993
O.C.D.

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 Keith E. Bucy TITLE Div Drlg and Prod Supt DATE 10-28-92

(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 Keith E. Bucy TITLE Div Drlg and Prod Supt DATE 1-26-93

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person 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.

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

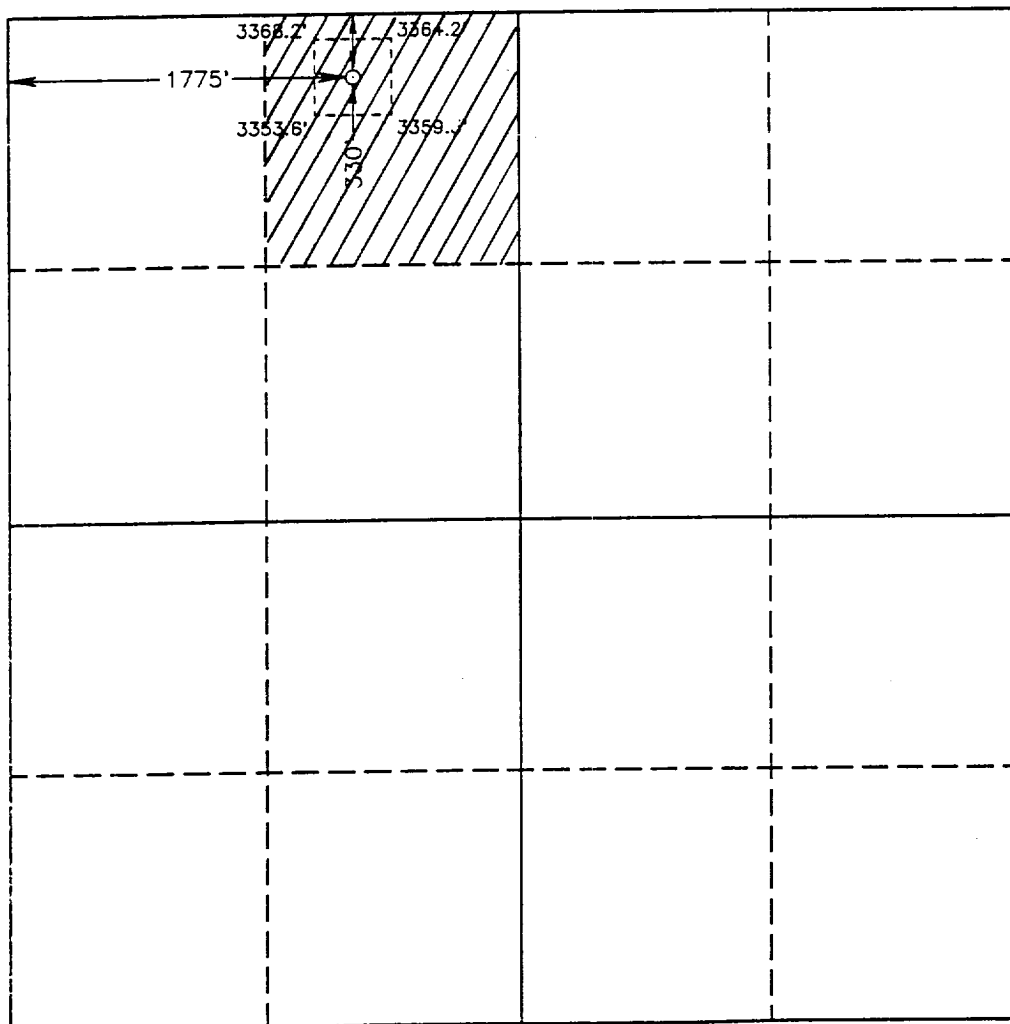
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator BASS ENTERPRISES PRODUCTION CO		Lease GOLDEN "D" FEDERAL		Well No. 1
Unit Letter C	Section 17	Township 21 SOUTH	Range 29 EAST NMPM	County EDDY
Actual Footage Location of Well:				
330 feet from the NORTH line and		1775 feet from the WEST line		
Ground Level Elev. 3361.1'	Producing Formation Delaware	Pool South Golden Lane (Delaware)		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 interest 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 of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature
Keith E. Bucy
Printed Name
Keith E. Bucy
Position
Div Drlg and Prod Supt
Company
Bass Enterprises Prod Co
Date
01-15-93

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 knowledge and belief.

Date Surveyed
JANUARY 07, 1993
Signature & Seal of
Professional Surveyor

7877
Certificate No. 876
JOHN W. WEST.
RONALD J. EIDSON
GARY L. JONES
93-11-0021

GOLDEN "D" FEDERAL #1
 BASS ENTERPRISES PRODUCTION COMPANY
 October 28, 1992

<u>DEPTH</u>	<u>CASING</u>	<u>HOLE SIZE</u>	<u>EVALUATION</u>	<u>ELECTRIC LOGS</u>	<u>CIRC FLUID</u>
90'	>20"	24" Conductor			FW Spud Mud
750'	>11-3/4"	15"			
			750' to 3050' One man logging unit 3050' to 4800' TD Two man logging unit		Brine Water
3050'	>8-5/8"	11"			
				T/DELAWARE DIL-MSFL w/GR 3,050' to 4,800' CNL-LDT w/GR 3,050' to 4,800' BHC-SONIC w/GR Surface to 4,800'	
		7-7/8"			
4800'	>5-1/2"			FMI 3,050' to 4,800'	Fresh Wtr Mud

MJE:sjw

**EIGHT POINT DRILLING PROGRAM
BASS ENTERPRISES PRODUCTION CO.**

NAME OF WELL: GOLDEN "D" FEDERAL #1

LEGAL DESCRIPTION - SURFACE: 330' FNL & 1650' FWL, Section 17, T-21-S, R-29-E, Eddy County, New Mexico.

POINT 1: ESTIMATED FORMATION TOPS

(SEE NO. 2 BELOW)

POINT 2: WATER, OIL GAS AND/OR MINERAL BEARING FORMATIONS

Anticipated Formation Tops: KB 3375' (est)
GL 3362'

<u>FORMATION</u>	<u>ESTIMATED TOP FROM KB</u>	<u>ESTIMATED SUBSEA TOP</u>	<u>BEARING</u>
T/Rustler Anhydrite	603'	+2772	Barren
T/Delaware	3053'	+ 322	Oil/Gas
T/Cherry Canyon	3833'	-458	Oil/Gas
T/49'er Sand	4190'	-815	Oil/Gas
TD	4800'	-1425	Oil/Gas

POINT 3: CASING PROGRAM

<u>TYPE</u>	<u>INTERVALS</u>	<u>PURPOSE</u>	<u>CONDITION</u>
20"	0' - 90'	Conductor	Contractor Discretion
11-3/4" 42# H-40 ST&C	0' - 750'	Surface	New
8-5/8" 24# K-55 & S-80 ST&C	0' - 3050'	Intermediate	New
5-1/2" 14# J-55 LT&C	0' - 4800'	Production	New

*See Exhibits D1-D3 (Casing Design Program)

POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAMS)

A BOP equivalent to Diagram 1 will be nipped up on the surface casinghead. The BOP stack, choke, kill lines, kelly cocks, inside BOP, etc. will be hydro-tested to the lowest rated working pressure of the equipment being tested. In addition to the rated working pressure test, a low pressure (200 psi) test will be required. These tests will be performed:

- a) Upon installation
- b) After any component changes
- c) Thirty days after a previous test
- d) As required by well conditions

A function test to insure that the preventers are operating correctly will be performed on each trip.

POINT 5: MUD PROGRAM

<u>DEPTH</u>	<u>MUD TYPE</u>	<u>WEIGHT</u>	<u>FV</u>	<u>PV</u>	<u>YP</u>	<u>FL</u>	<u>Ph</u>
0' - 750'	FW Spud Mud	8.5 - 9.2	35-40	NC	NC	NC	NC
750' - 3050'	BW	9.6 - 10.0	29-30	NC	NC	NC	NC
3050' - 4800'	FW Mud	8.6 - 8.8	34-40	10-14	12-18	<5	9-9.5

POINT 6: TECHNICAL STAGES OF OPERATION**A) TESTING**

Drill stem tests will be performed on significant shows in Delaware.

B) LOGGING

GR-CNL-LDT, GR-DIL-MSFL run from TD (4800') to 3050', GR-BHCSOINIC run from TD (4800') to surface. FMI over Delaware Sands of interest from 4800' to 3050'.

C) CORING

No cores are anticipated.

D) CEMENT

<u>INTERVAL</u>	<u>AMOUNT SXS</u>	<u>FT OF FILL</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT/SX</u>
Surface	470 (100% excess circ to surface)	750	Class "C" with 2% CaCl ₂ and 1/4 ppg Cello-Flake	6.3	14.8	1.32
Intermediate	950 (100% excess w/TOC @ 250')	2800	Class "C" with Salt	6.3	14.8	1.32
Production	232 (25% excess)	2250	Class "C" w/additives for Wtr Loss Control	10.6	13.2	1.92

E) DIRECTIONAL DRILLING

No directional services anticipated.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout Delaware section.

BHP 2146 psi max or ECD of 8.6 ppg, BHT 100°

Lost circulation can occur from surface to 2500'.

H₂S has been measured @ 12,000 ppm max in the Delaware - H₂S safety equipment will be installed at 3050'.

Deviation can be a problem from 1000' to 3000' and will be monitored closely.

POINT 8: OTHER PERTINENT INFORMATION

A) Auxiliary Equipment

Upper and lower kelly cocks. Full opening stab in valve on the rig floor.

B) Anticipated Starting Date

Upon Approval

15 days drilling operations

5 days completion operations

MULTI-POINT SURFACE USE PLAN

NAME OF WELL: GOLDEN "D" FEDERAL #1

LEGAL DESCRIPTION - SURFACE: 330' FNL & 1650' FWL, Section 17, T-21-S, R-29-E, Eddy County, New Mexico.

POINT 1: EXISTING ROADS

A) Proposed Well Site Location:

See Exhibit "A".

B) Existing Roads:

From Carlsbad, go NE on U.S. 62, approx 14 miles to it's intersection with Hwy 31 North. Continue 1 mile east on U.S. 62 and turn on caliche road due south for 1/4 mile, turn west for 1/4 mile then south again for 2-1/4 miles to Golden 8 Federal #2 location, then go south 1/4 mile and west 1/4 mile to the location.

C) Existing Road Maintenance or Improvement Plan:

See Exhibit "A".

POINT 2: NEW PLANNED ACCESS ROUTE

A) Route Location:

See Exhibit "B". The new road will be 12' wide and approximately 800' long. The road will be constructed of watered and compacted caliche.

B) Width

Not applicable.

C) Maximum Grade

Not applicable.

D) Turnouts

None.

E) Culverts, Cattle Guards, and Surfacing Equipment

None.

POINT 3: LOCATION OF EXISTING WELLS

Exhibit "A" indicates existing wells within the surrounding area.

POINT 4: LOCATION OF EXISTING OR PROPOSED FACILITIES

- A) Existing facilities within one mile owned or controlled by lessee/operator:

Production facilities and wells as shown on Exhibit "A" at Big Eddy Unit #73, Big Eddy Unit #85, Big Eddy Unit #113 (Golden 8 Federal #1), Golden 8 Federal #2, Golden "B" Federal #1, and Golden "D" Federal #1.

- B) New Facilities in the Event of Production:

Additional production facilities will be installed as required.

- C) Rehabilitation of Disturbed Areas Unnecessary for Production:

Following the construction of production facilities, those access areas required for continued production will be graded to provide drainage and minimize erosion. The areas unnecessary for use will be graded to blend in the surrounding topography - See Point 10.

POINT 5: LOCATION AND TYPE OF WATER SUPPLY

- A) Location and Type of Water Supply

Fresh water and brine will be hauled from the city of Carlsbad. Brine water will be hauled from Champion Brine Water Station, 3.5 miles east and 2.5 miles south of Carlsbad. Alternate source of fresh water may come from water well located approximately 1.75 miles northeast of location.

- B) Water Transportation System

Water hauling to the location will be over the existing and proposed roads.

POINT 6: SOURCE OF CONSTRUCTION MATERIALS

A) Materials

Exhibit "A" shows location of caliche source.

B) Land Ownership

Federally owned.

C) Materials Foreign to the Site

No construction materials foreign to this area are anticipated for this drill site.

D) Access Roads

No additional access roads are required.

POINT 7: METHODS FOR HANDLING WASTE MATERIAL

A) Cuttings

Cuttings will be contained in the reserve pit.

B) Drilling Fluids

Drilling fluids will be contained in the reserve pit.

C) Produced Fluids

Water production will be contained in the reserve pit.

Hydrocarbon fluid or other fluids that may be produced during testing will be retained in test tanks. Prior to cleanup operations, any hydrocarbon material in the reserve pit will be removed by skimming or burning as the situation would dictate.

D) Sewage

Current laws and regulations pertaining to the disposal of human waste will be complied with.

E) Garbage

Portable containers will be utilized for garbage disposal during the drilling of this well.

F) Cleanup of Well Site

Upon release of the drilling rig, the surface of the drilling pad will be graded to accommodate a completion rig if testing indicates potential productive zones. In any case, the "mouse" hole and the "rat" hole will be covered. The reserve pit will be fenced and the fence maintained until the pit is backfilled. Reasonable cleanup will be performed prior to the final restoration of the site.

POINT 8: ANCILLARY FACILITIES

None required

POINT 9: WELL SITE LAYOUT

A) Rig Orientation and Layout

Exhibit "C" shows the dimensions of the well pad and reserve pits, and the location of major rig components. Only minor leveling of the well site will be required. No significant cuts or fills will be necessary.

B) Locations of Pits and Access Road

See Exhibits "A" and "C"

C) Lining of the Pits

The reserve pit will be lined with plastic.

POINT 10: PLANS FOR RESTORATION OF THE SURFACE

A) Reserve Pit Cleanup

A pit will be fenced at the time of rig release and shall be maintained until the pit is backfilled. Previous to backfill operations, any hydrocarbon material on the pit surface shall be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and soil adjacent to the reserve pit. The restored surface of the pit shall be contoured to prevent impoundment of surface water flow. Water- bars will be constructed as needed to prevent excessive erosion. Topsoil, as available, shall be placed over the restored surface in a uniform layer. The area will be seeded according to the Bureau of Land Management stipulations during the appropriate season following restoration.

B) Restoration Plans - Production Developed

The reserve pit will be backfilled and restored as described above under Item A. In addition, those areas not required for production will be graded to blend with the surrounding topography. Topsoil, as available, will be placed upon those areas and seeded. The portion of the site required for production will be graded to minimize erosion and provide access during inclement conditions. Following depletion and abandonment of the site, restoration procedures will be those that follow under Item C.

C) Restoration Plans - No Production Developed

The reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the well site will be restored. The site will be contoured to blend with the surrounding topography and provide drainage of surface water. The topsoil, as available, shall be replaced in a uniform layer and seeded accordingly to the Bureau of Land Management's stipulations.

D) Rehabilitations Timetable

Upon completion of drilling operations, the initial cleanup of the site will be performed as soon as weather and site conditions allow economic execution of the work.

POINT 11: OTHER INFORMATION

A) Terrain

Relatively flat.

B) Soil

Caliche and sand.

C) Vegetation

Sparse, primarily grasses and mesquite with very little grass.

D) Surface Use

Primarily grazing.

E) Surface Water

There are no ponds, lakes, streams, or rivers within several miles of the wellsite.

F) Water Wells

There is a water well approximately 2 miles northeast of location.

G) Residences and Buildings

None

H) Historical Sites

No observed.

I) Archeological Resources

An archeological survey will be obtained for this area. Before any construction begins, a full and complete archeological survey will be submitted to the Bureau of Land Management. Any location or construction conflicts will be resolved before construction begins.

J) Surface Ownership

The well site and new access road is on Federally owned land.

K) Well signs will be posted at the drilling site.

L) Open Pits

All pits containing liquid or mud will be fenced and bird-netted.

POINT 12: OPERATOR'S FIELD REPRESENTATIVE

(Field personnel responsible for compliance with development plan for surface use).

DRILLING

Keith E. Bucy
Box 2760
Midland, Texas 79702
(915) 683-2277

PRODUCTION

Mike Waygood
1012 West Pierce, Suite F
Carlsbad, New Mexico 88220
(505) 887-7329

Keith E. Bucy
Box 2760
Midland, Texas 79702
(915) 683-2277

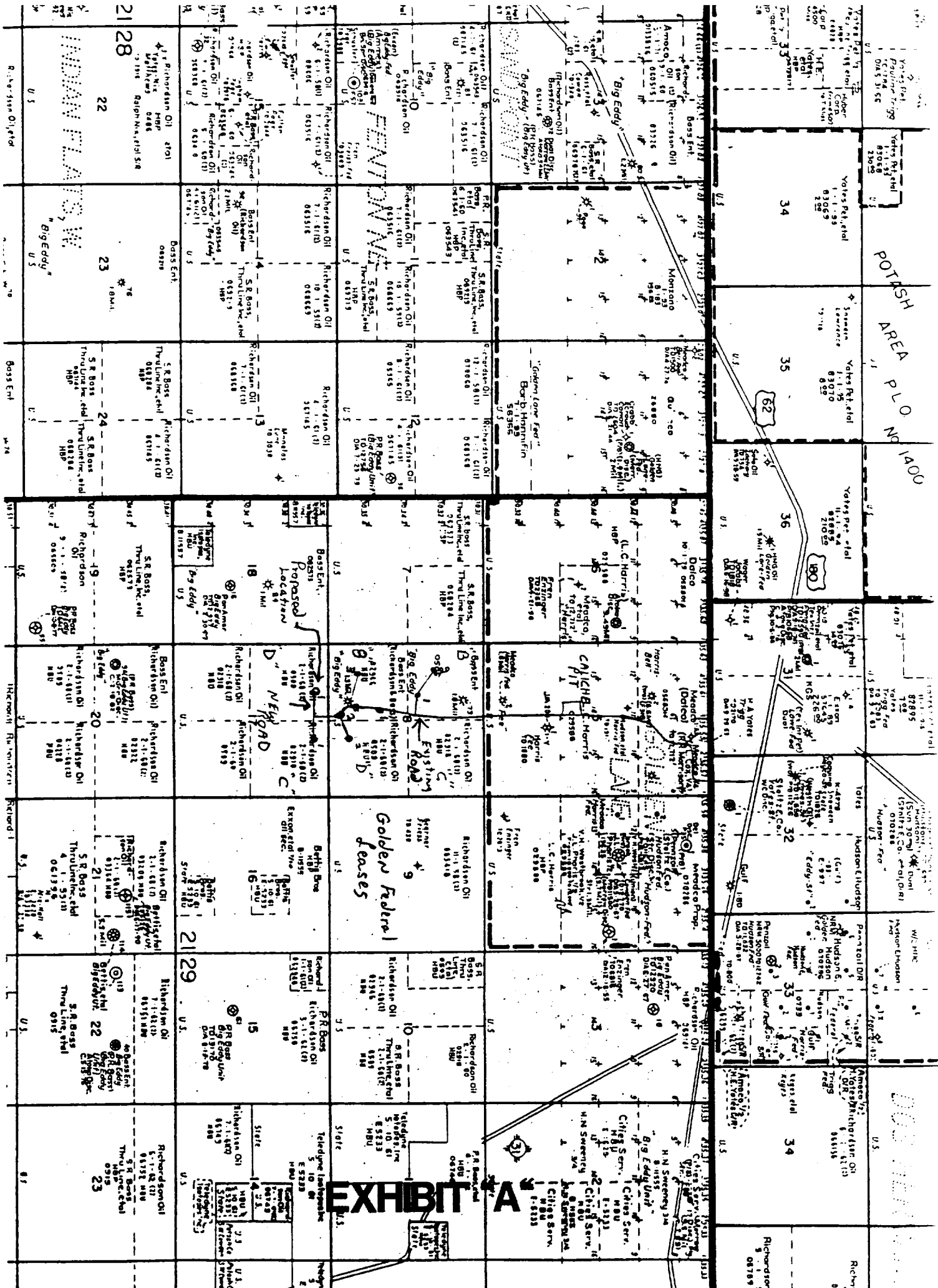
POINT 13: CERTIFICATION

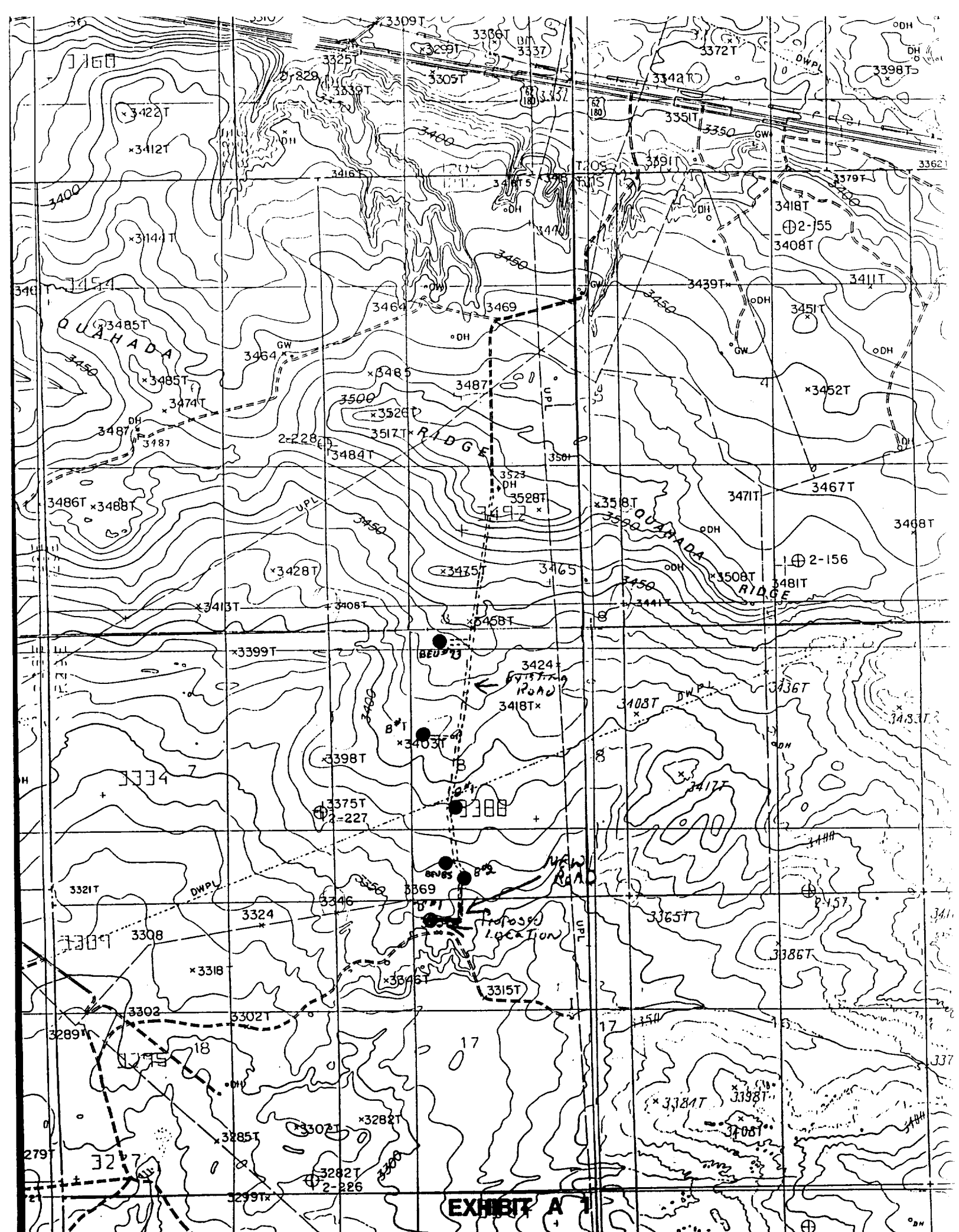
I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Bass Enterprises Production Co. and it's contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

11/5/92
Date

Keith E. Bucy
Keith E. Bucy

MJE:sjw





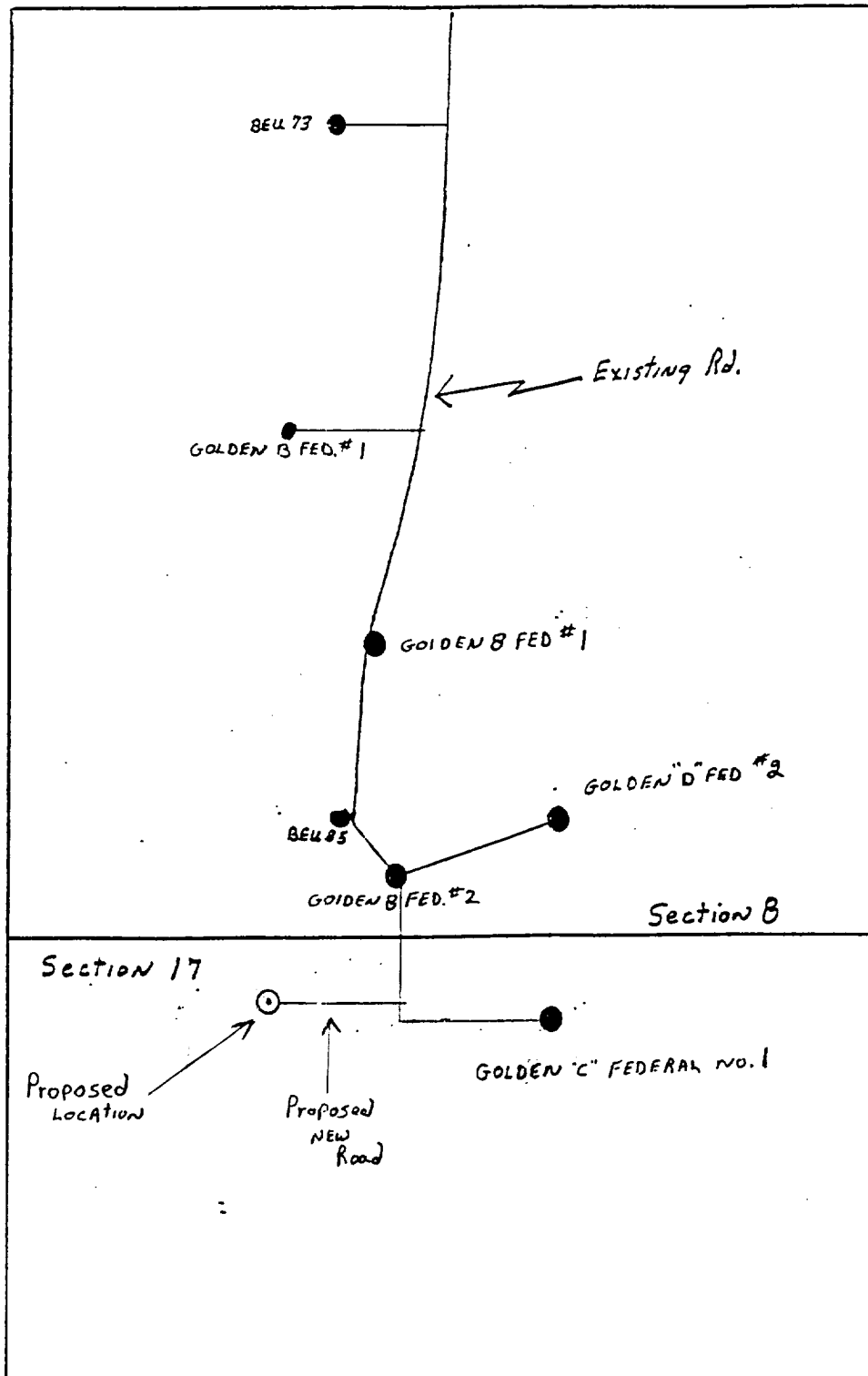
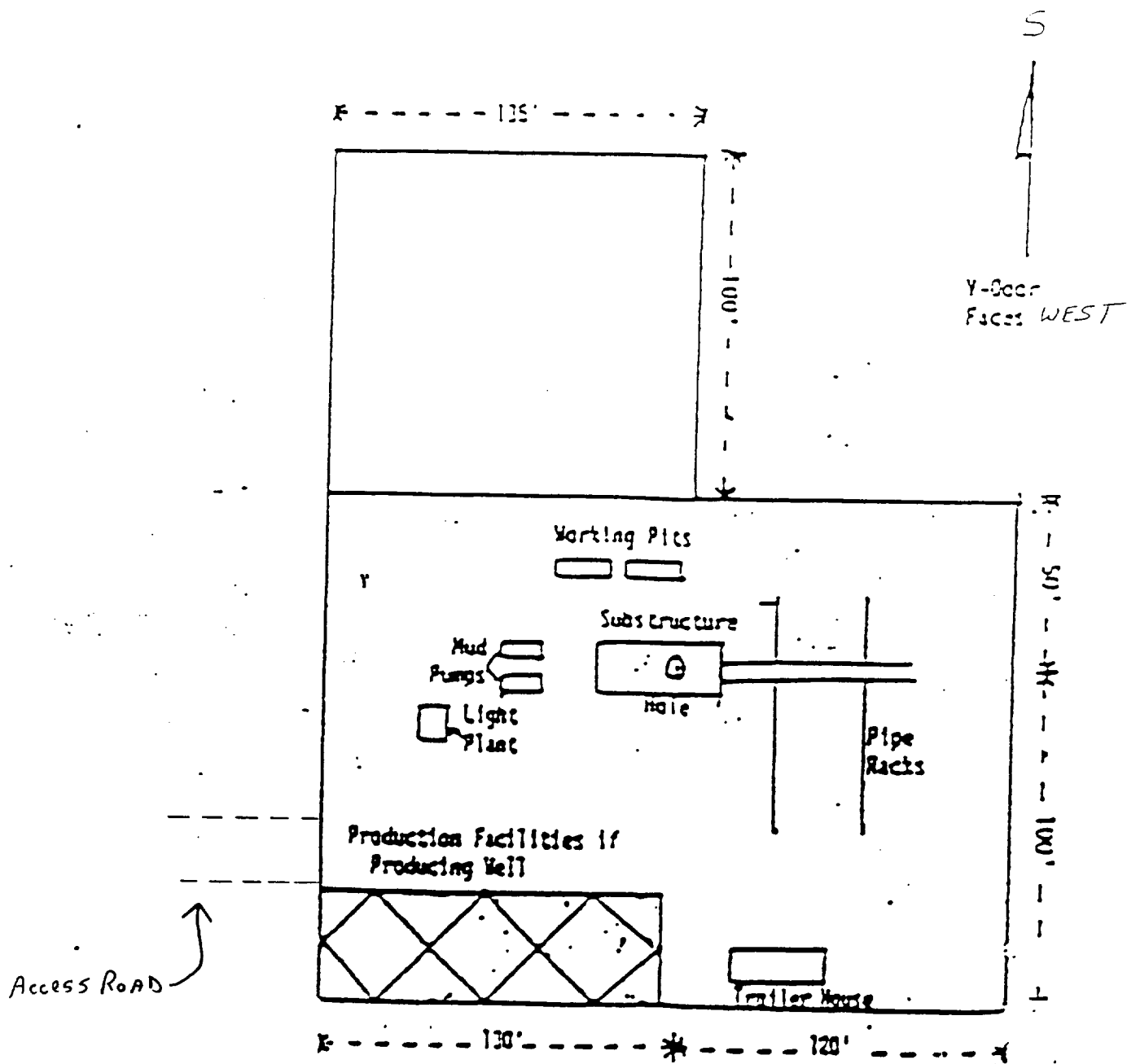


EXHIBIT "B"



GOLDEN "D" FEDERAL NO. 1
SURFACE CASING

1st TAPER CASING PARAMETERS		TOTAL DEPTH	750
SIZE (inches)	11.750	TOP DEPTH OF TAPER(ft)	0
WEIGHT (lbs/ft)	42.00	BOTTOM DEPTH OF TAPER(ft)	750
GRADE	H-40	MAX FLUID GRADIENT (ppg)	10
LONG OR SHORT THREAD	ST&C	AXIAL LOAD FACTOR "X"	0.000
INT. DIAMETER (inches)	11.084	AXIAL LOAD FACTOR "Y"	1.000
DRIFT DIAMETER (inches)	10.928	ANTICIPATED PSI @ SETTING	389.3
TENSION (lbs)	307,000		
COLLAPSE (psi)	1,070		
BURST (psi)	1,980	NET FOOTAGE =	750

TENSION-1.6 design factor	9.746	DESIGN EXCEEDS SAFETY FACTOR REQUIREMENT
TENSION/(DEPTH*WEIGHT)		
COLLAPSE-1.0 design factor	2.749	DESIGN EXCEEDS SAFETY FACTOR REQUIREMENT
(COLLAPSE * Y)/(PSI/FT * DEPTH)		
BURST-1.0 design factor	5.087	DESIGN EXCEEDS SAFETY FACTOR REQUIREMENT
BURST/ (.75*BHP+2.5 #/gal)		

EXHIBIT D-1

GOLDEN "D" FEDERAL NO. 1
INTERMEDIATE CASING

1st TAPER CASING PARAMETERS

TOTAL DEPTH 3,050

SIZE (inches)	8.625	TOP DEPTH OF TAPER(ft)	0
WEIGHT (lbs/ft)	24.00	BOTTOM DEPTH OF TAPER(ft)	2,500
GRADE	K-55	MAX FLUID GRADIENT (ppg)	10
LONG OR SHORT THREAD	ST&C	AXIAL LOAD FACTOR "X"	0.050
INT. DIAMETER (inches)	8.097	AXIAL LOAD FACTOR "Y"	0.986
DRIFT DIAMETER (inches)	7.972	ANTICIPATED PSI @ SETTING	1297.5
TENSION (lbs)	263,000		
COLLAPSE (psi)	1,370		
BURST (psi)	2,950	NET FOOTAGE =	2500

TENSION-1.6 design factor 3.593
TENSION/(DEPTH*WEIGHT)
COLLAPSE-1.0 design factor 1.041
(COLLAPSE * Y)/(PSI/FT * DEPTH)
BURST-1.0 design factor 1.952
BURST/((.75*BHP+2.5 #/gal))

DESIGN EXCEEDS SAFTEY FACTOR REQUIREMENT
DESIGN EXCEEDS SAFTEY FACTOR REQUIREMENT
DESIGN EXCEEDS SAFTEY FACTOR REQUIREMENT

2nd TAPER CASING PARAMETERS

SIZE (inches)	8.625	TOP DEPTH OF TAPER(ft)	2500
WEIGHT (lbs/ft)	24.00	BOTTOM DEPTH OF TAPER(ft)	3050
GRADE	S-80	MAX FLUID GRADIENT (ppg)	10
LONG OR SHORT THREAD	ST&C	AXIAL LOAD FACTOR "X"	0.000
INT. DIAMETER (inches)	8.097	AXIAL LOAD FACTOR "Y"	1.000
DRIFT DIAMETER (inches)	7.972	ANTICIPATED PSI @ SETTING	1583.0
TENSION (lbs)	326,000		
COLLAPSE (psi)	1,780		
BURST (psi)	2,950	NET FOOTAGE =	550

TENSION-1.6 design factor 24.697
TENSION/(DEPTH*WEIGHT)
COLLAPSE-1.0 design factor 1.124
(COLLAPSE * Y)/(PSI/FT * DEPTH)
BURST-1.0 design factor 1.864
BURST/((.75*BHP+2.5 #/gal))

DESIGN EXCEEDS SAFTEY FACTOR REQUIREMENT
DESIGN EXCEEDS SAFTEY FACTOR REQUIREMENT
DESIGN EXCEEDS SAFTEY FACTOR REQUIREMENT

EXHIBIT D-2

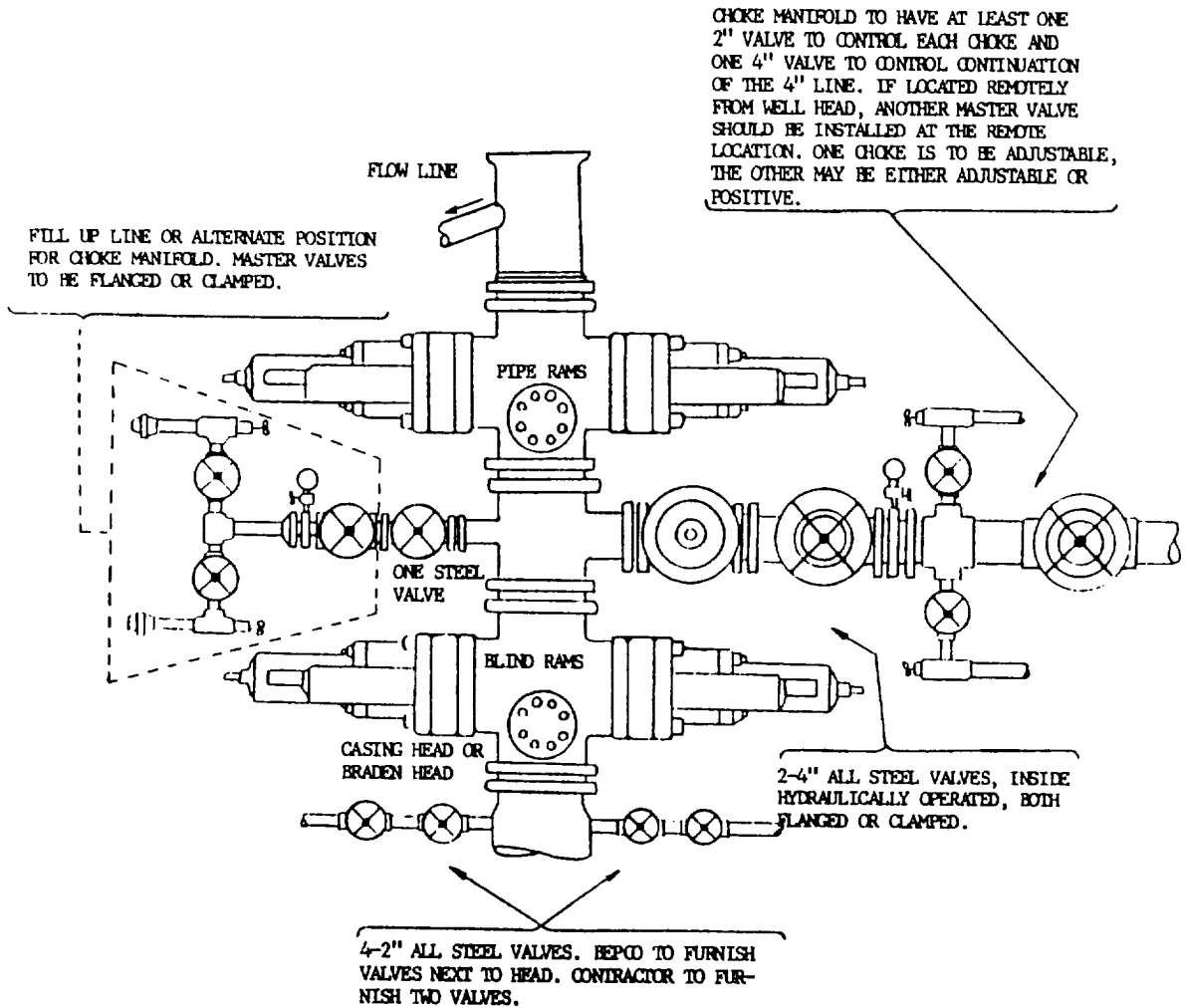
DATE: 10/23/92

GOLDEN "D" FEDERAL NO.1

1st TAPER CASING PARAMETERS		TOTAL DEPTH	4,800
SIZE (inches)	5.500	TOP DEPTH OF TAPER(ft)	0
WEIGHT (lbs/ft)	14.00	BOTTOM DEPTH OF TAPER(ft)	4,800
GRADE	J-55	MAX FLUID GRADIENT (ppg)	9.2
LONG OR SHORT THREAD	ST&C	AXIAL LOAD FACTOR "X"	0.000
INT. DIAMETER (inches)	5.012	AXIAL LOAD FACTOR "Y"	1.000
DRIFT DIAMETER (inches)	4.887	ANTICIPATED PSI @ SETTING	2291.9
TENSION (lbs)	172,000		
COLLAPSE (psi)	3,120		
BURST (psi)	4,270	NET FOOTAGE =	4800
TENSION-1.6 design factor	2.560	DESIGN EXCEEDS SAFETY FACTOR REQUIREMENT	
TENSION/(DEPTH*WEIGHT)			
COLLAPSE-1.0 design factor	1.361	DESIGN EXCEEDS SAFETY FACTOR REQUIREMENT	
(COLLAPSE * Y)/(PSI/FT * DEPTH)			
BURST-1.0 design factor	1.823	DESIGN EXCEEDS SAFETY FACTOR REQUIREMENT	
BURST/((.75*BHP+2.5 * gal)			

DIAGRAM 1

3000 psi BOP STACK



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. Conditions may be met by either (1) an annular blowout preventer on top and blind rams below with a choke spool between them, (2) Pipe rams on top and blind rams below with a choke spool between them, (3) A dual blowout preventer with pipe rams on top and blind rams below with a side outlet between the rams at least four inches diameter.
- B. Openings between rams to be flanged, studded or clamped.
- C. All connections from operating manifold to preventers to be all steel hose or tube a minimum of one inch in diameter.
- D. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate (close, open, and re-close) the preventers.
- E. All connections to and from preventers to have a pressure rating equivalent to that of the BOPs.
- F. Manual controls to be installed before drilling cement plug.
- G. Kelly cock to be installed on kelly.
- H. Inside blowout preventer to be available on rig floor.

BEPCO III

TWO CLOSURE HYDRAULIC BLOWOUT PREVENTERS