Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-045-23858

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [XX] DEEPEN [ ] PLUG BACK [ ]

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

2. NAME OF OPERATOR: ~~H. L.~~ Helen Lorraine HARVEY

3. ADDRESS OF OPERATOR: 137 Rio Vista Dr., Santa Fe, New Mexico 87501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 890'/N, 1670'/E
B At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.: NM-03717-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: JONES

9. WELL NO.: 3

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC. 13, T29N, R11W

12. COUNTY OR PARISH: SAN JUAN | 13. STATE: NEW MEXICO

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 160

16. NO. OF ACRES IN LEASE: 160

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 1950

20. ROTARY OR CABLE TOOLS: ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5728 GL

22. APPROX. DATE WORK WILL START*: October 1, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4	7"	23	100'	100
6 1/4	4 1/2	10.5	1950	300

(SEE ATTACHMENTS)

Gas under this lease is not dedicated to a contract.

SEP 21 1979
U. S. GEOLOGICAL SURVEY

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 John Alexander JOHN ALEXANDER TITLE AGENT DATE September 13, 1979

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

NMOCC

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-102
Revised 10-1-78

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

Operator	Lease	Well No.
~~H. L.~~ Helen Lorraine HARVEY	JONES	3

Unit Letter	Section	Township	Range	County
B	13	29N	11W	San Juan

Actual Footage Location of Well:
890 feet from the North line and 1670 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5728	FRUITLAND	AZTEC FRUITLAND	160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

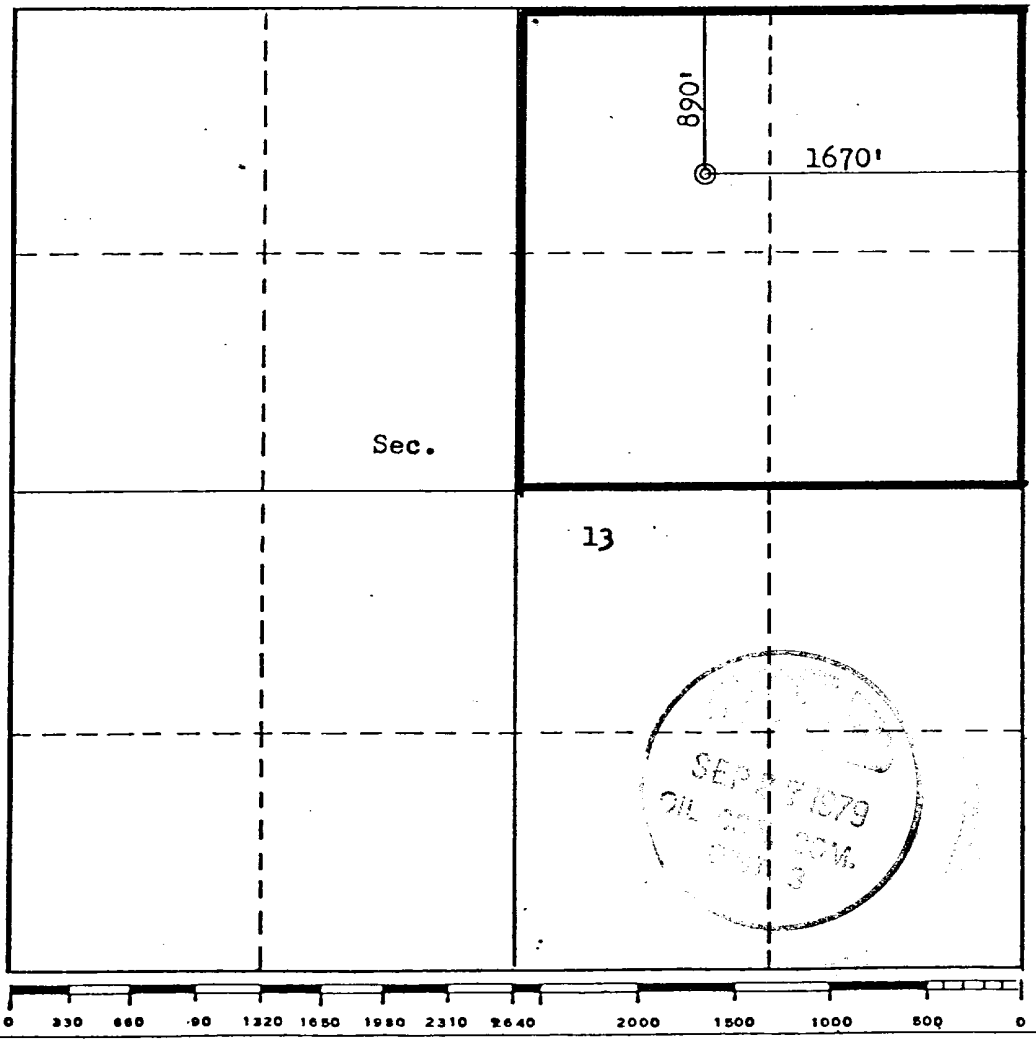
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the 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.

John Alexander

Name: JOHN ALEXANDER

Position: AGENT

Company: H. L. HARVEY

Date: September 13, 1979

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: September 8th, 1979

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No. 3950

REGISTERED LAND SURVEYOR
STATE OF NEW MEXICO
3950
FRED B. KERR, JR.

H. L. HARVEY

FORMATION INFORMATION AND
DRILLING PRACTICES

WELL: JONES NO. 3

LOCATION: 890'/N, 1670'/E
Sec. 13, T29N, R11W
San Juan County
New Mexico

1. Geologic Name of Surface Formation: WASATCH

2. Estimated Tops of Important Geologic Markers:

Ojo Alamo 824
Kirtland 916
Fruitland 1778

3. Estimated Depths at which Anticipated Water, Oil, Gas or Other Mineral-Bearing Formations are Expected:

Gas Fruitland 1778

4. Proposed Casing Program:

Surface: 7", 23# used casing to be set at 100'- cement will be 50 sacks class "B" + 2% $CaCl_2$

Production: 4½", 10.5# new casing to be set at 1950'. Cement will be circulated to surface by using caliper volume + 20% excess. Filler cement will be 65-35 Pozmix + 12% gel and the Fruitland will be covered with class "B" cement

5. Specifications for Pressure Control Equipment

The attached schematic shows the type of blowout preventer to be used while drilling. The 6" 600 series unit will be installed and operable for all operations below surface pipe. Prior to drilling from under surface pipe, the blind and pipe rams will be tested to 800 psi. Operation of the unit will be checked daily.

6. Drilling Fluids

DEPTH	TYPE	VISCOSITY	WEIGHT	FLUID LOSS
0-100	Gel-Lime	30-50	8.4-9.0	N/C
100-1950	Gel-Chem	35-45	8.7-9.4	N/C

7. Auxiliary Equipment

a) bit float
b) full opening stabbing valve to be used when kelly is not in the string

8. Logging - Coring - Testing

Logging - Induction Electric, Formation Compensated Density, Gamma Ray, Caliper

Coring - None

Drill Stem Testing - None

9. Abnormal Temperatures, Pressures, or Hazardous Conditions

None expected

10. Starting Date

Anticipated starting date is September 20, 1979. Approximately 4 days will be required to build location and drill well to T.D. If commercial, completion will commence immediately and require two days.

ATTACHMENT TO ITEM 5
6" 600 SERIES API

SHAFFER TOOL WORKS

SHAFFER HYDRAULIC BLOWOUT PREVENTERS

(Patented)

TYPE LWS PREVENTERS—8", 3000 Lb. & 5000 lb.—10", 5000 Lb. 12", 3000 Lb.—13⅝", 5000 Lb.—16", 3000 Lb.

PARTS AND DIMENSIONAL ILLUSTRATIONS

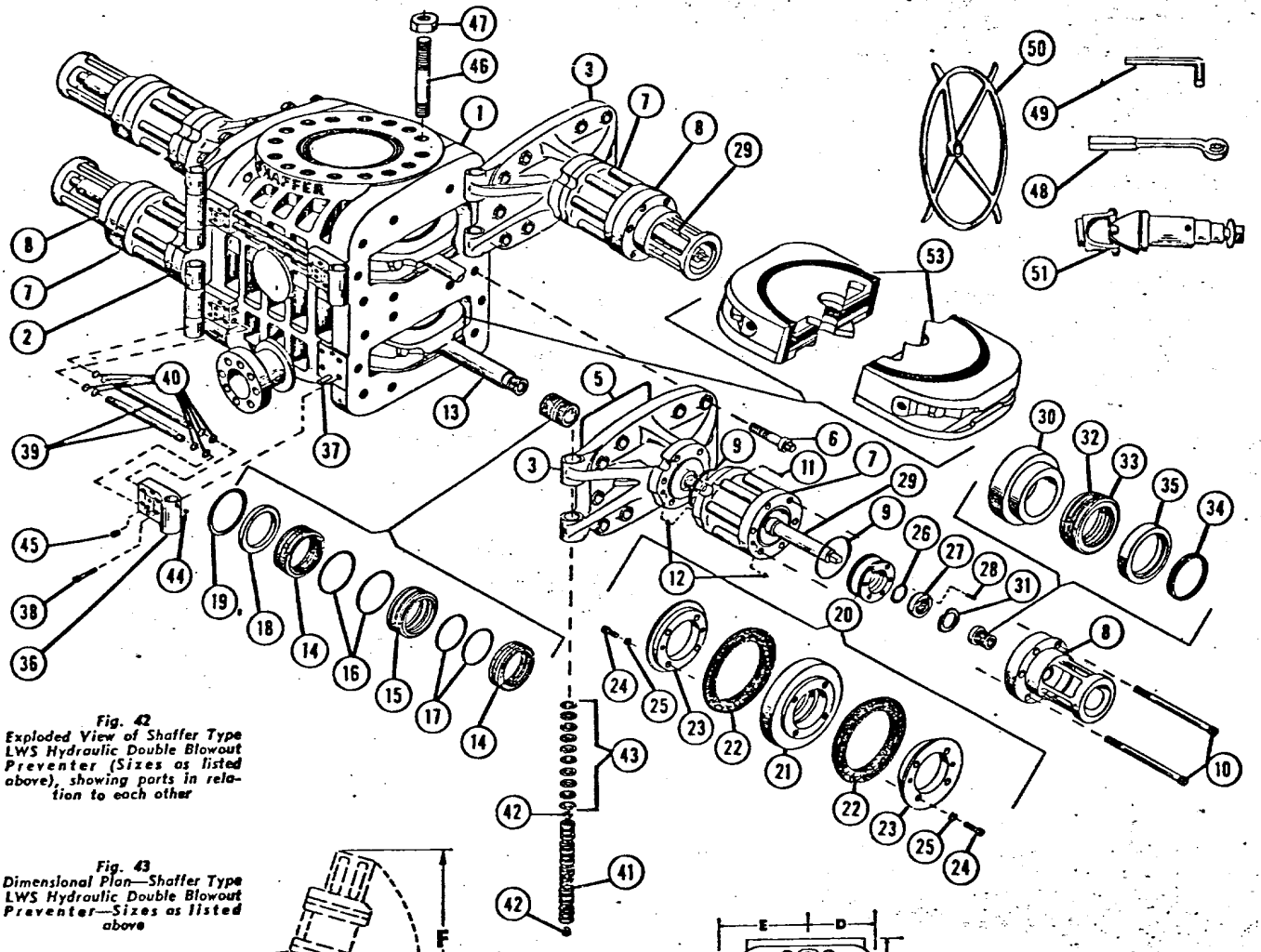


Fig. 42
Exploded View of Shaffer Type LWS Hydraulic Double Blowout Preventer (Sizes as listed above), showing parts in relation to each other

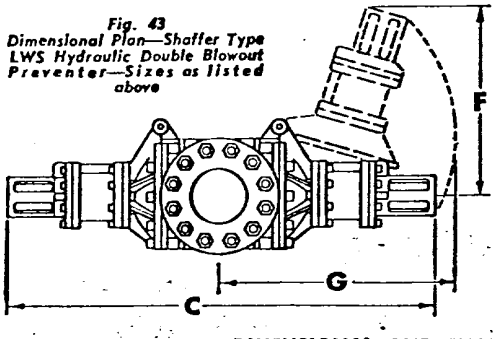


Fig. 43
Dimensional Plan—Shaffer Type LWS Hydraulic Double Blowout Preventer—Sizes as listed above

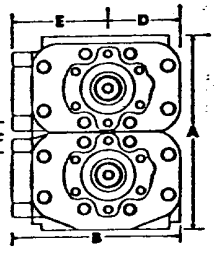


Fig. 44
Dimensional End Elevation—Shaffer Type LWS Hydraulic Double Blowout Preventer—Sizes as listed above

STANDARD ACCESSORIES

(50) 4 Hand Wheels

(48) 1 Door Wrench

(49) 1 Cylinder & Cylinder Head Wrench

(51) 4 Universal Joints

DIMENSIONAL AND ENGINEERING DATA ON ABOVE SIZES OF TYPE LWS PREVENTERS

Refer to Figs. 43 and 44

Size	Max. Service Press. Rating psi	Test Press. psi	Vertical Bore	Max. Ram Size	Approx. Weight Lbs. Studded Flange		A Height				B	C	D	E	F	G			U.S. Gals. Fluid To Close Rams	U.S. Gals Fluid To Open Rams
							Single		Double											
					Single	Double	Studded Flange	Bolted Flange	Studded Flange	Bolted Flange	Width	Length	Center To Front	Center To Rear	Door Open To Change Rams	Door Open To Change Rams	Closing Ratio	Opening Ratio		
8"	3,000	6,000	9"	7"	....	3,900	....	....	29½"	41½"	25¾"	79½"	11¾"	14¼"	22"	46"	5.6 to 1	1.89 to 1	2.75	2.3
8"	5,000	10,000	9"	7"	....	3,900	....	....	29½"	45½"	25¾"	79½"	11¾"	14¼"	22"	46"	5.6 to 1	1.89 to 1	2.75	2.3
10"	5,000	10,000	11"	8¼"	5,600	7,000	34½"	34½"	33"	50½"	28¾"	89¼"	12½"	16"	22"	46"	5.5 to 1	1.5 to 1	3.25	2.7
12"	3,000	6,000	13⅝"	10¾"	....	6,300	....	....	34½"	47½"	31¼"	92¼"	13½"	18¼"	27"	53"	5.56 to 1	1.89 to 1	2.55	2.9
13⅝"	5,000	10,000	13⅝"	10¾"	6,500	9,700	36½"	36½"	36"	49½"	33¼"	92¾"	14¾"	18¼"	41"	54"	5.56 to 1	1.5 to 1	3.55	2.9
16"	3,000	6,000	18¼"	13⅝"	....	8,500	....	....	35"	51"	56¼"	106¼"	16½"	20¼"	32"	60"	5.56 to 1	1.89 to 1	3.8	3.2

H. L. HARVEY

DEVELOPMENT PLAN FOR SURFACE USE

WELL: JONES NO. 3

LOCATION: 890'/N, 1670'/E
Sec. 13, T29N, R11W
San Juan County
New Mexico

1. Existing Roads (Shown in Green)

The attached topographic map shows all existing roads within one mile of the proposed location. All roads are in fair condition and will require a minimal amount of work to upgrade them to handle normal drilling activity traffic.

2. Planned Access Road (Shown in Red)

The new access road will be approximately 20' wide and 600' long. No cut, fill, turnouts or culverts will be needed. No fences, gates or cattleguards will be crossed. Maximum grade will be 5%. Water bars will be used where needed to aid drainage and help prevent erosion.

3. Location of Existing Wells

All wells (water, abandoned, disposal and drilling) are shown and so labeled on the attached section layout.

4. Location of Existing Production Facilities

All production facilities for this well will be located on the site. All tank batteries, production facilities or production gathering and service lines within one mile of the proposed location are shown on the attached section layout.

5. Location and Type of Water Supply

Water for drilling will be trucked from Bloomfield, New Mexico, approximately 10 miles south of the location. This water is privately owned.

6. Source of Construction Material

Any construction material required for road or location will be excess material accumulated drugin building of such sites.

7. Methods of Handling Waste Material

(Refer to attached well site layout.)
All material that can be safely burned will be so disposed of when weather conditions permit. All nonburnable waste (drilling fluids, cuttings, chemicals, etc.) will be held in the reserve pit until dry, and then buried. Any oil that accumulates on the pit will be removed prior to leaving the pit to dry. Pits will be fenced during dry out, then completely backfilled with dirt prior to preparing the location for production or abandonment.

Any solid waste that cannot be buried will be taken from the location and properly destroyed.

8. Ancillary Facilities: None planned.

9. Well site Layout

The attached layout shows the drilling rig with all supporting facilities. Cut and fill, required for pad construction, is also shown.

10. Plans for Restoration of Surface

Restoration of the well site and access road will begin within 90 days of well completion, weather permitting. Should the well be abandoned, the drilling site will be reshaped to its approximate former contour. The access road will be plowed and leveled. Both road and location will have top soil replaced and will be reseeded when germination can occur. Should the well be commercial,

that portion of location not needed for operation will be repaired as above. The portion of the location needed for dialy production operations, and the access road, will be kept in good repair and clean.

In either case, cleanup of the site will include burning any safely burnable material, filling of all pits, and proper disposal of any nonburnable material that cannot be safely buried. Any oil that has accumulated on the pits will be trucked away.

11. Other Information

General topography of the area may be seen on the attached map. This location is 1 mile west of Potter Canyon. The area is relatively flat and covered with native grasses and trees. Surface at this location belongs to the Bureau of Land Management.

There are no occupied dwellings in the area. There were no archaeological or cultural sites visible on the location. The archaeologist's report is forthcoming.

12. John Alexander
3E Company, Inc.
P.O. Box 190
Farmington, New Mexico 87401
Phone: 505-327-4020

13. 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 presently exist; that the statements made in the plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by H. L. Harvey, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

September 19, 1979

John Alexander
JOHN ALEXANDER
AGENT

NO. 652-10G
10 DIVISIONS PER INCH BOTH WAYS
L. L. RIDGWAY COMPANY, INC.
PRINTED IN U.S.A.

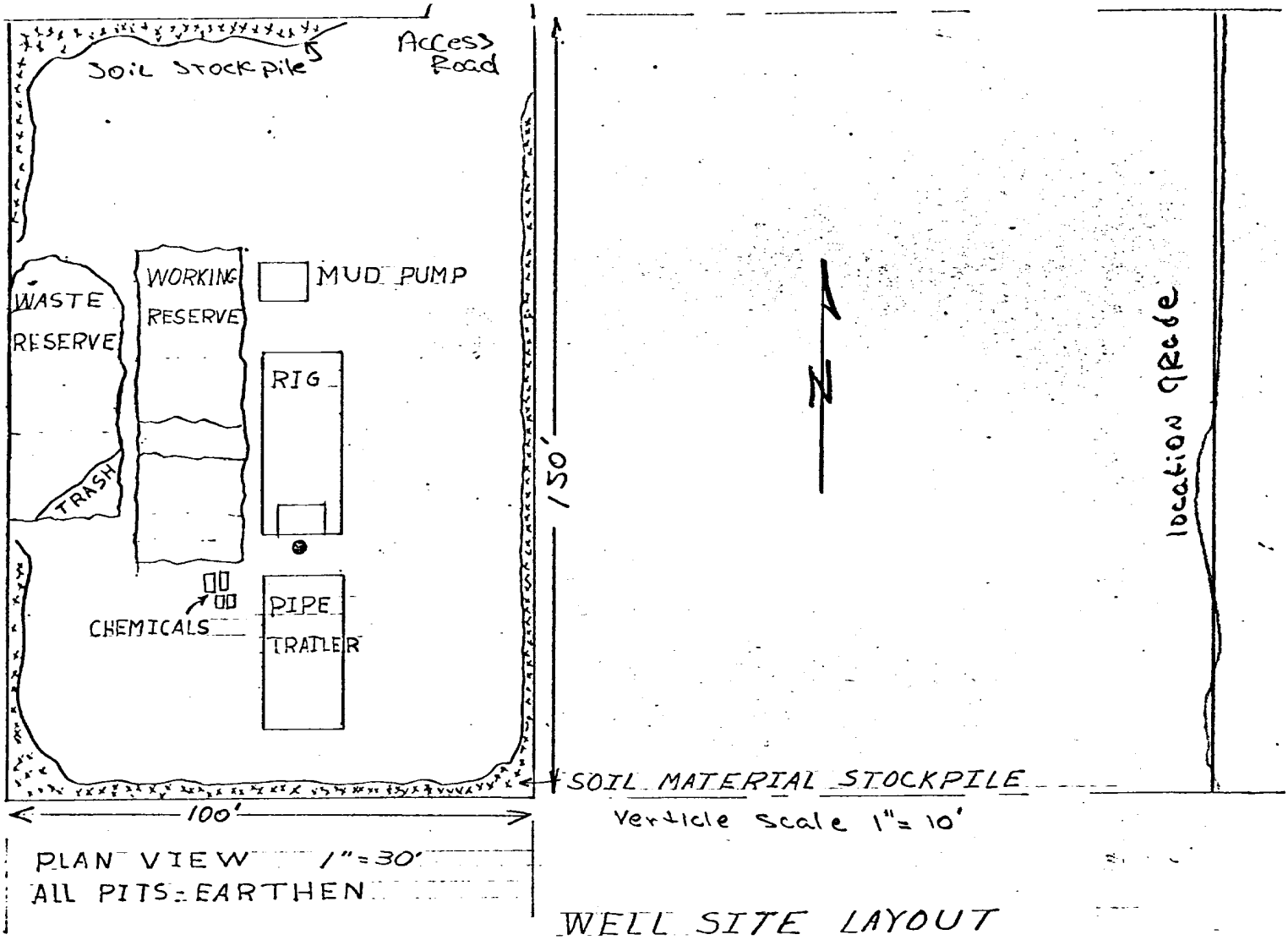
JONES NO. 3
OFFSET WELLS

SEC. 13 - 29N - 11W

D	C	B △○	A △
E △	F △	G	H △
L △	K 13	J	I △△
M △	N	O	P

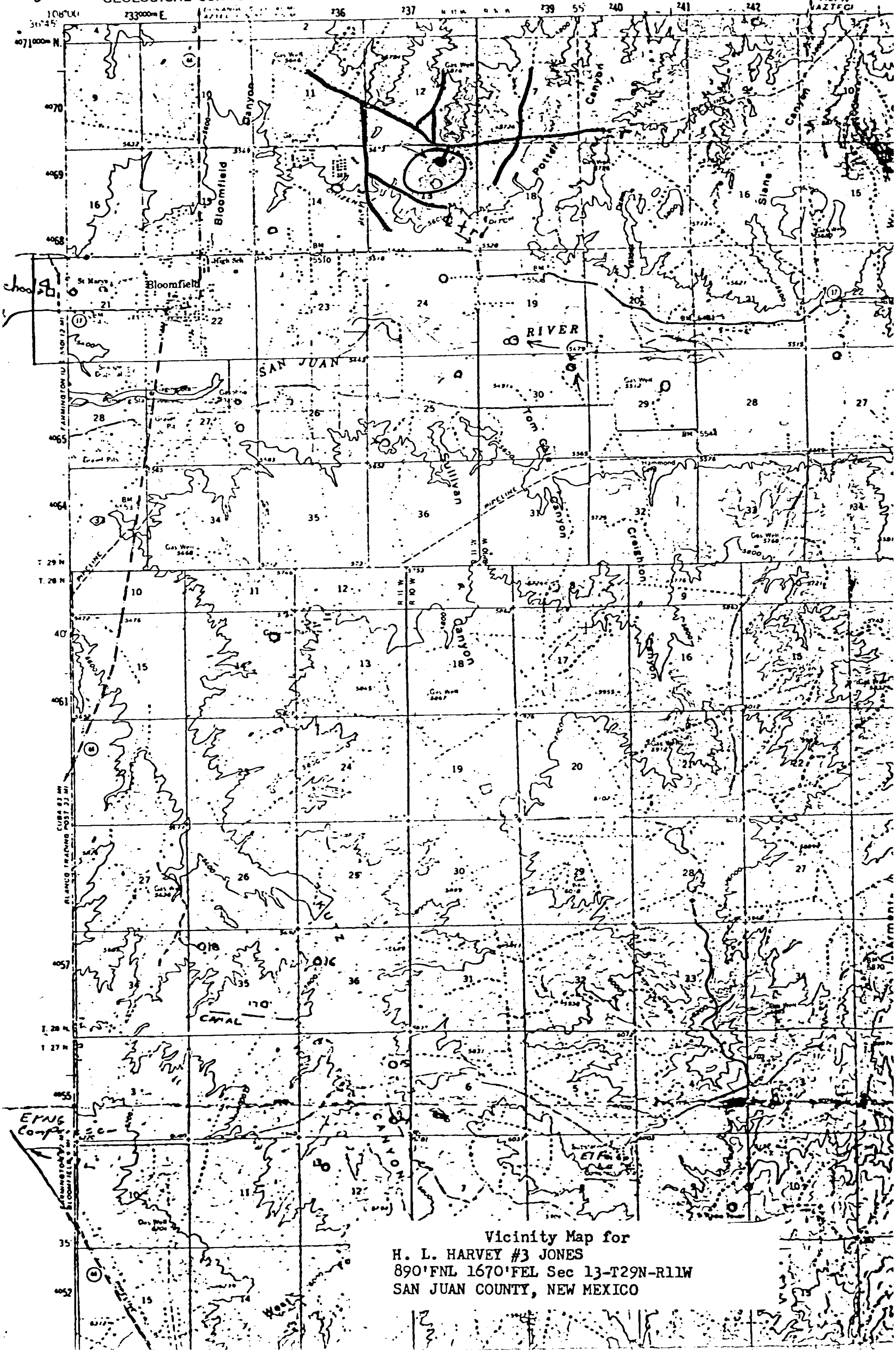
○ SUBJECT WELL

△ PRODUCING WELL



WELL SITE LAYOUT
A.L HARVEY
JONES NO. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Vicinity Map for
H. L. HARVEY #3 JONES
890'FNL 1670'FEL Sec 13-T29N-R11W
SAN JUAN COUNTY, NEW MEXICO