N.M.O.C.D. COPY

C1SF

Form 9-331 C
(May 1963)

SUBMIT IN PLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-015-23076

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
NOV 26 1979
O. C. D.
ARTESIA, OFFICE

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

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

2. NAME OF OPERATOR: Perry R. Bass

3. ADDRESS OF OPERATOR: Box 2760 Midland TX 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 2280' FNL & 1980' FEL
At proposed prod. zone: Same

5. LEASE DESIGNATION AND SERIAL NO.: ~~061616~~ LC-068431

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Poker Lake Unit

8. FARM OR LEASE NAME: Poker Lake Unit

9. WELL NO.: 48

10. FIELD AND POOL, OR WILDCAT: Wildcat Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 15, T24S, R30E

12. COUNTY OR PARISH: Eddy

13. STATE: N M

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 12 miles east from Malaga N M

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1980'

16. NO. OF ACRES IN LEASE: ~~640~~ 2430.89

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.:

19. PROPOSED DEPTH: 4400

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3352.4 GL

22. APPROX. DATE WORK WILL START*: Upon Approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#/ft	350	300 sx circ to surface
7 7/8"	5 1/2"	14#/ft	4400	150 sx

Drilling Procedure, BOPE Diagram, Anticipated Formation Tops, and Surface Use Plans are attached.

RECEIVED
OCT 19 1979
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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 Mike Waygood TITLE Engineering Assistant DATE 10/18/79

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE 11-21-79

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

WELL LOCATION AND ACREAGE

PERCY R. [illegible] Baker [illegible] Unit

[illegible] 24 South [illegible] East [illegible]ddy

2230 [illegible] North [illegible] 1980 [illegible] East

3352.4 Delaware Wildcat Delaware 40

RECEIVED

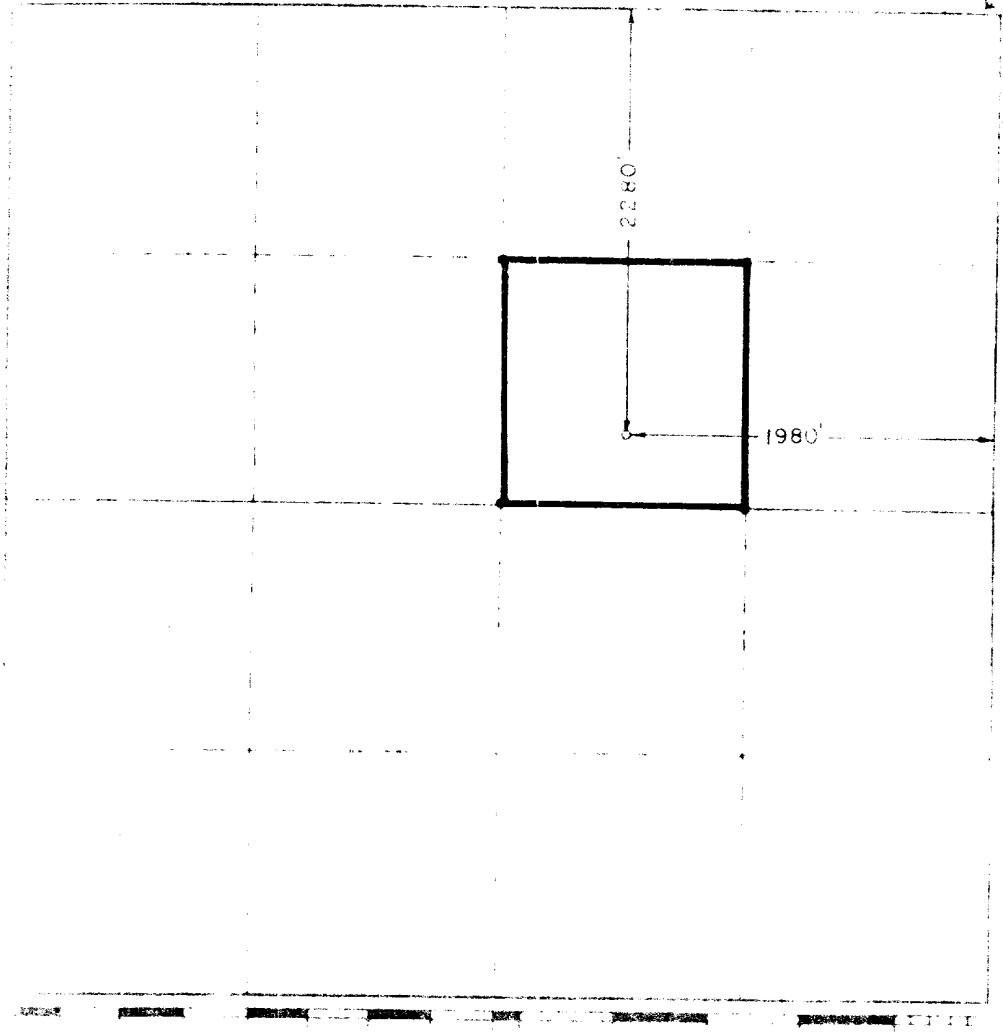
NOV 26 1979

O. C. D.
ARTESIA, OFFICE

X Yes [ ] No If answer is "yes" type of consolidation Unit

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.



RECEIVED
OCT 19 1979
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Gary C. Eklund
Senior Engineer
BASS ENTERPRISES PRODUCTION CO
10/18/79

October 22, 1979

676

United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

RECEIVED
NOV 26 1979
O. C. C.
ARTESIA, OFFICE

NOV 21 1979

Perry R. Bass
P. O. Box 2760
Midland, Texas

Gentlemen:

PERRY R. BASS Poker Lake Unit No. 48 2280 FNL 1980 FEL Sec. 15 T.24S R.30E Eddy County Lease No. LC 068431
Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well in the Secretary's Oil-Potash Area to a depth of 4,400 feet to test the Delaware is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

1. Drilling operations authorized are subject to compliance with the attached General Requirements for Oil and Gas Operations on Federal Leases, dated July 1, 1978.

2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the Surface Use Plan and these Conditions of Approval including the attached General Requirements.

3. Submit a Daily Report of Operations from spud date until the well is completed and the Well Completion Report (form 9-330) is filed. The report should not be less than 8" x 5" in size and each page should identify the well.

4. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Guidelines. The color used should simulate Sandstone Brown (Federal Standard No. 595A, color 20318 or 30318).

5. Before drilling below the 8-5/8" casing, the blowout preventer assembly will consist of a minimum of two ram type preventers.

6. A kelly cock will be installed and maintained in operable condition.

7. After setting the 8-5/8" casing string and before drilling into the Delaware formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report.

8. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the Delaware formation and used until production casing is run and cemented. Monitoring equipment shall consist of the following:

   (1) A recording pit level indicator to determine pit volume gains and losses.

   (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.

   (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.

9. Notify the Survey in sufficient time to witness the cementing of the 8-5/8" and 5-1/2" casing.

10. Cement behind the 8-5/8" and 5-1/2" casing must be circulated.

11. Special stipulations:

   (1) Turn V-door west

   (2) Follow white surveyor's ribbon on proposed new access road to avoid the archaeological site recorded during this reconnaissance. There are also orange pin flags marking the new road.

   (3) Notify BLM two days prior to commencement of construction of road.

12. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Area Oil and Gas Supervisor

Enclosure

cc:
Regional Manager, Denver
Mining Branch (2)
BLM, Roswell (w/cy Notice)
NMOCD, Artesia (2) (w/2 cys Notice)
Artesia
Roswell (w/cy Notice)
Area (potash)
Area (chrono.)
District (potash)
District (chrono)

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

RECEIVED

POKER LAKE UNIT NO. 48

OCT 19 1979

2280' FNL & 1980' FEL

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Sec. 15, T24S, R-30E

Eddy County, New Mexico

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction, activities, and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to rehabilitate the surface after completion of operations so that an appraisal can be made on environmental effects.

1. Existing roads including location of exit from main highway Exhibit "A" is a portion of a map showing existing road. The location is obtained by turning southwest off of New Mexico State Highway 128, 20 miles east of its intersection with State Highway 31. The turnoff is onto a good caliche road which continues southwest for 10.9 miles to the northeast corner of Section 1, T25S, R30E. The road then turns west for 1 mile, south for 1/10 mile, northwest for 2 miles, northeast for 1 3/10 miles, and northwest for 8/10 mile. At this point the proposed road turns due north and curves northwest into location.

2. Planned access road (Width, maximum grade, turnout, drainage design, location & size of culverts & surfacing material, where fences will be cut, & where gates or cattleguard will be used.)

Exhibit "A" shows the planned access road to Poker Lake Unit #48. This road will be 12' wide and approximately 7600' long. The road will be constructed of watered and compacted caliche with two turnouts, two cattleguards, and no gates or culverts.

3. Location of existing wells Exhibit "A" shows all surrounding wells.

4. Location of tank battery and flow lines If a commercial well is obtained, a production battery will be constructed on the southwest corner of the location.

5. Location and type of water supply Fresh and brine water will be obtained from commercial haulers and trucked in.

6. Source of construction material Exhibit "A" shows approximate location of caliche source.

7. Methods of handling waste disposal:

   A. Drill cuttings will be disposed of in the drilling pits.

   B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.

   C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.

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

   E. Trash, paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste materials will be contained to prevent scattering by the wind. Location of trash pit is shown in Exhibit "C".

   F. Trash and debris will be buried or removed from the well site within 30 days after finishing drilling and/or completion operations. (Note: All trash left on well site to be removed or buried within 30 days must be contained to prevent scattering.)

8. Ancillary facilities None required.

9. Well site layout Exhibit "B" shows the dimensions of the well pad and reserve pit, as well as the relative location of major rig components, trash pit, tec. Only minor leveling of the well site will be required. No significant cuts or fills will be necessary. The reserve pit will be lined with plastic. The pit and pad area have been staked and flagged.

10. Plans for restoration of surface:

A. Producing well - all pits will be cut, filled, and leveled as soon as practical to original conditions with rehabilitation to commence following removal of drilling and completion equipment.

B. Dry hole - same as above with dry hole marker to be installed and surface reseeded if required. At the time of final abandonment, both USGS and BLM restoration stipulations will be complied with.

11. Other information:

A. Terrain Flat, with low lying sand hills.

B. Soil Sandy.

C. Vegetation Sparse, primarily mesquite with very little grass.

D. Surface use Grazing.

E. Surface water None within 1 mile of location.

F. Water wells There is a waterwell appriximately 1 ¼ miles southeast of the subject location.

G. Residences and buildings None within 1 mile of location.

H. Surface ownership The well site and access, roads are on Federal land.

I. Well signs posted at each drilling site.

J. Open pits - all pits containing liquid or mud will be fenced.

K. Archaeological resources None observed.

12. Operator's representative
(Field personnel responsible for compliance with development plan for surface use)

DRILLING
Mike Cure
Box 2760
Midland, Texas 79702
915-684-5723

PRODUCTION
Al Gallas
Box 1043
Kermit, Texas 79745
915-563-0656
(or) Mike Cure
Box 2760
Midland, Texas 79702
915-684-5723

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 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 operations proposed herein will be performed by Bass Enterprises Production Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

October 18, 1979
(Date)

Mike Waygood
(Name)

Engineering Assistant
(Title)

CEB:gp

DRILLING PROCEDURE
Poker Lake Delaware Wildcat
Poker Lake Unit #48
Eddy County, New Mexico

Surface Casing: 8 5/8" x 24 #/ft K-55 ST&C casing will be set in a 12¼" hole at 350'. Anticipate loss circulation from 100' - TD. After trying a pill of paper, hulls and gel, the hole may have to be dry drilled to TD. The casing will be run with a guide shoe, insert float and 3 centralizers. Cement baskets may be run if circulation is not gained while drilling. The cement basket/baskets may be run 30' ± above loss circulation zone. Cement to surface with 200% excess using 300 sx Class "C" + 4% gel + 2% $CaCl_2$ + 1/4# per sack Floseal 14.9 ppg, 1.69 ft^3/sx. Cement will be circulated to surface.

Waiting on Cement Time: will be 8 hours.

Nipple Up: A 8 5/8" x 8" 2,000 WP Screw on casing head will be installed. Nipple up double ram BOPs as per BEPCO II. Test casing and BOPs to 1000 psi before drilling plug.

Production Hole: A 7 7/8" hole will be drilled to TD (4400') using 10 ppg brine water with lime added for pH control. (Raise viscosity to 32-34 @ 3950'.) Paper may also be added to control seepage. Bottom hole assembly will consist of bit, 3 pt. bottom hole reamer, 30' DC, and a 3 pt. reamer. Hole deviation through the salt section will require reduced weights and frequent surveys every 200'.

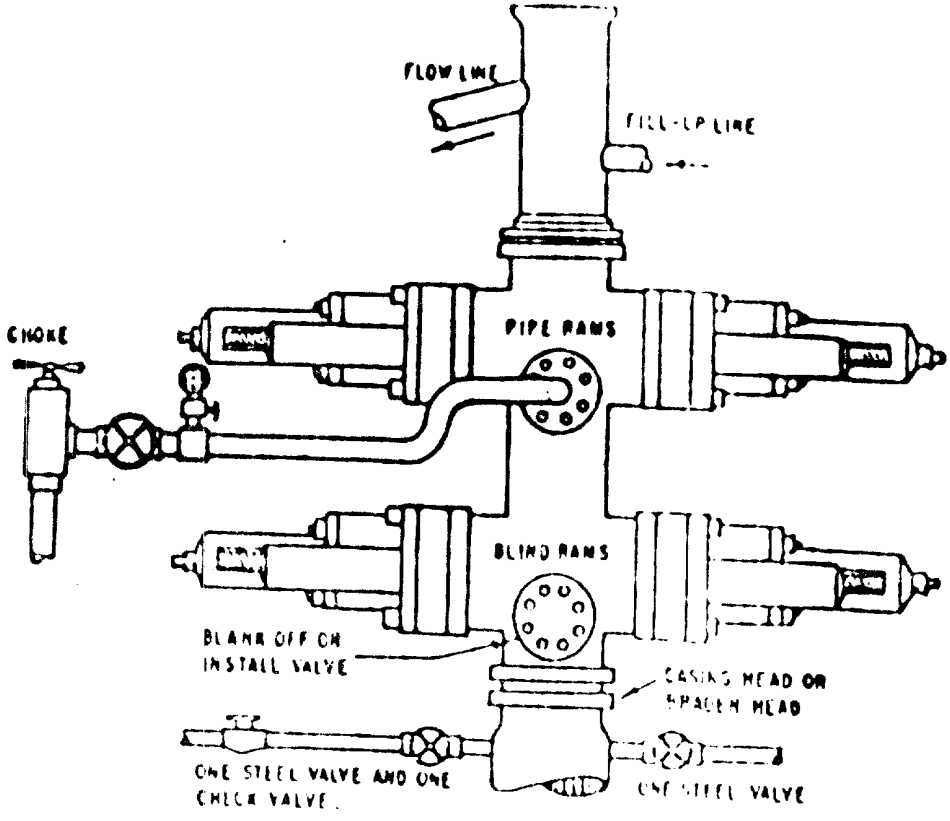
Evaluation: 10' drilling samples are to be caught from 3900' to TD. Wire line logs to be run at TD are: DLL-RXO-GR, CNL-FDC-GR. DSTs will be run on any significant shows. No coring is anticipated.

Production casing: 5½" 14#/ft K-55 ST&C casing will be set at TD (4400'.) The casing will be run with a float shoe, float collar and six centralizers. The bottom 500' will be ruff-coated. Cement back to 2,000', using approximately 150 sx 50-50 Pozmix Class "C" + 2% gel + 15#/sx salt. TOC 2000'. A 2000 WP w/2" 2000 WP ball valve tubing head will be installed.

General: Anticipated water-oil contact is expected to occur at -815' subsea datum point. No abnormal pressures, temperatures, water, or other hazards are expected. Proposed starting date is estimated at November 11, 1979. Well duration is 10 days.

FORMATION MARKERS

T/ Rustler	350'
T/Salt	800'
B/Salt	3700'
T/Delaware Lime	3900'
Ramsey Sand	3950'
Ford Shale	4025'
Olds Sand	4040'



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

A. ONE DOUBLE GATE BLOWOUT PREVENTER WITH LOWER RAMS BLIND AND UPPER RAMS FOR PIPE, ALL HYDRAULICALLY CONTROLLED. OPENING ON PREVENTERS BETWEEN RAMS.

B. OPENING TO BE FLANGED, STUDDED OR CLAMPED AND AT LEAST TWO INCHES DIAMETER.

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 50% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE PREVENTERS.

E. ALL CONNECTIONS TO AND FROM PREVENTERS TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.'s.

F. MANUAL CONTROLS TO BE INSTALLED BEFORE DRILLING CEMENT PLUG.

G. VALVE TO CONTROL FLOW THROUGH DRILL PIPE TO BE LOCATED ON RIG FLOOR.

H. CHOKE MAY BE EITHER POSITIVE OR ADJUSTABLE.. Choke spool may be used between rams.

REPCO II

ONE HYDRAULIC DUAL BLOWOUT PREVENTER

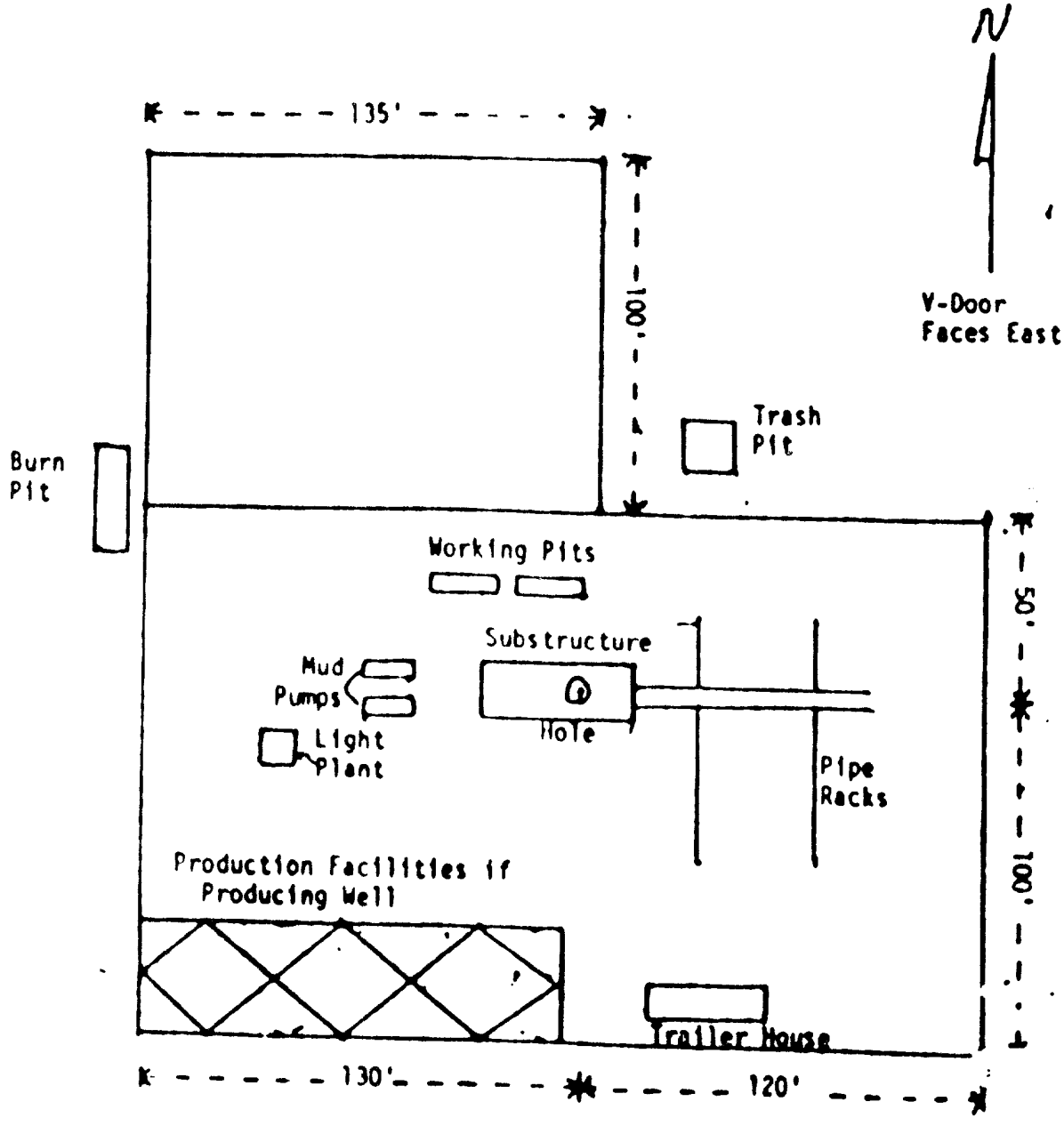
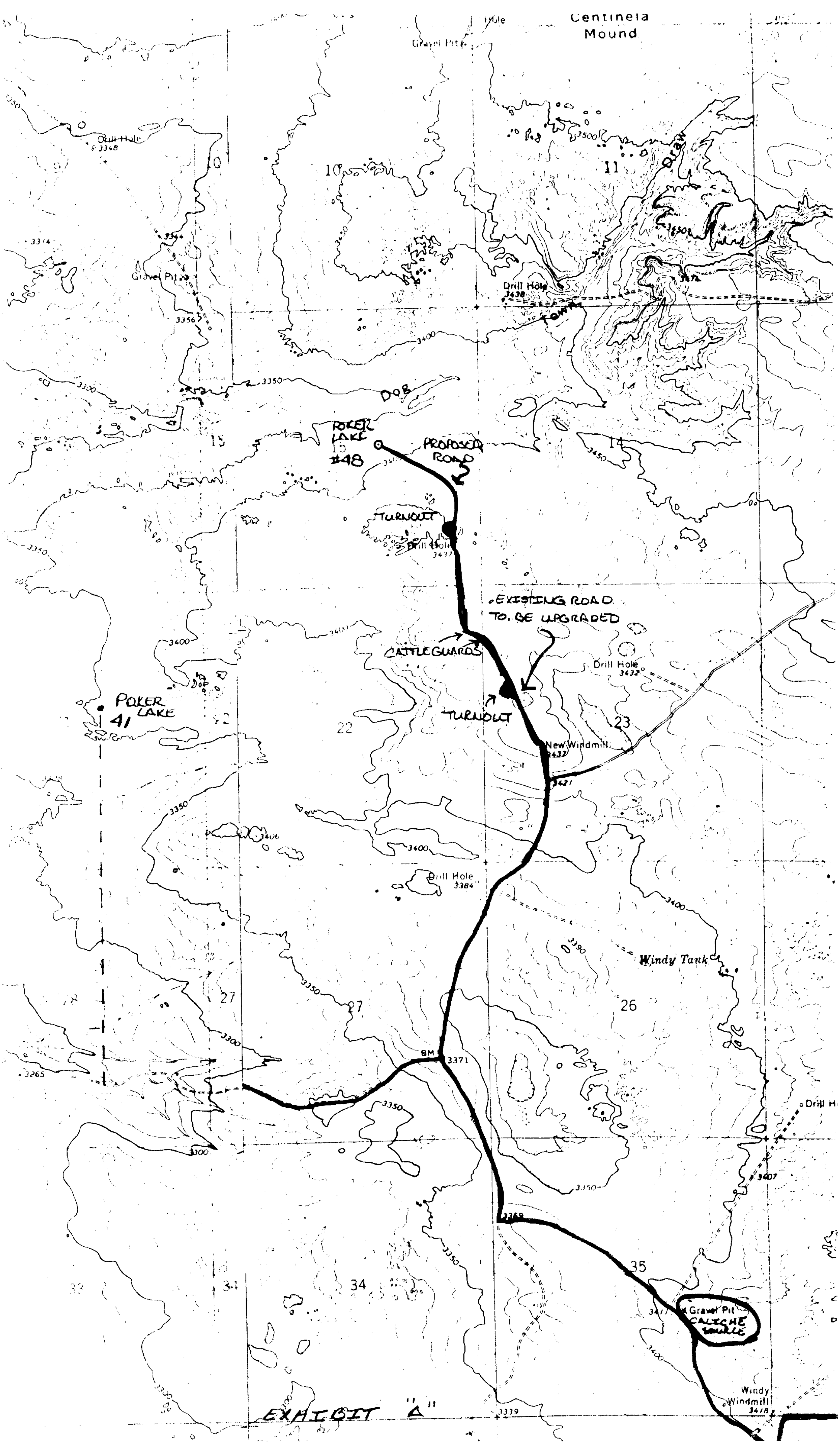

N
135'
100'
V-Door
Faces East
Trash
Pit
Burn
Pit
Working Pits
Substructure
Mud
Pumps
Light
Plant
Hole
Pipe
Racks
50'
100'
Production Facilities if
Producing Well
Trailer House
130'
120'

EXHIBIT B



Centinela Mound
Gravel Pits
Drill Hole
Draw
Drill Hole 3438
Gravel Pit
DOG
POKER LAKE #48
PROPOSED ROAD
TURNOUT
Drill Hole 3437
EXISTING ROAD TO BE UPGRADED
CATTLEGUARDS
Drill Hole 3432
TURNOUT
POKER LAKE 41
New Windmill 3432
Drill Hole 3384
Windy Tank
BM 3371
Gravel Pit
CALICHE SOURCE
Windy Windmill 3418
Drill Hole
EXHIBIT "A"