

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Skelly Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 1351, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

Unit Letter "D", 660' FNL and 660' FWL, Section 21-21S-32E
At proposed prod. zone

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.)

660'

16. NO. OF ACRES IN LEASE

5147.6

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

First Well

19. PROPOSED DEPTH

14,000'

20. ROTARY OR CABLE TOOLS

Rotary

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

3659' DF

22. APPROX. DATE WORK WILL START*

January 28, 1974

23.

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"	54.5#	650'	550 Sacks
12-1/4"	9-5/8"	47#	4700'	1650 Sacks
8-1/2"	7-5/8"	33.7#	11,800'	800 Sacks
6-1/2"	5"	23.2#	11,500-14,000'	300 Sacks

We propose to drill with rotary tools from surface to approximately 14,000' in the Morrow formation. Plats of existing roads, planned access road, well location, rig location layout, mud tanks, pipe racks, etc., including plans for restoration of surface, schematic of blow-out preventers, proposed mud program, proposed casing program, proposed cementing program are attached. If the well is completed as a producer, we plan to install the necessary production and storage facilities in the same 40 acres as the well location. We plan to haul drilling water to the location. Waste water will be hauled to disposal. No camps or airstrips are planned.

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)

SIGNED

J. R. Avent

TITLE

District Adm. Coordinator

DATE

January 21, 1974

(This space for Federal or State office use)

PERMIT NO.

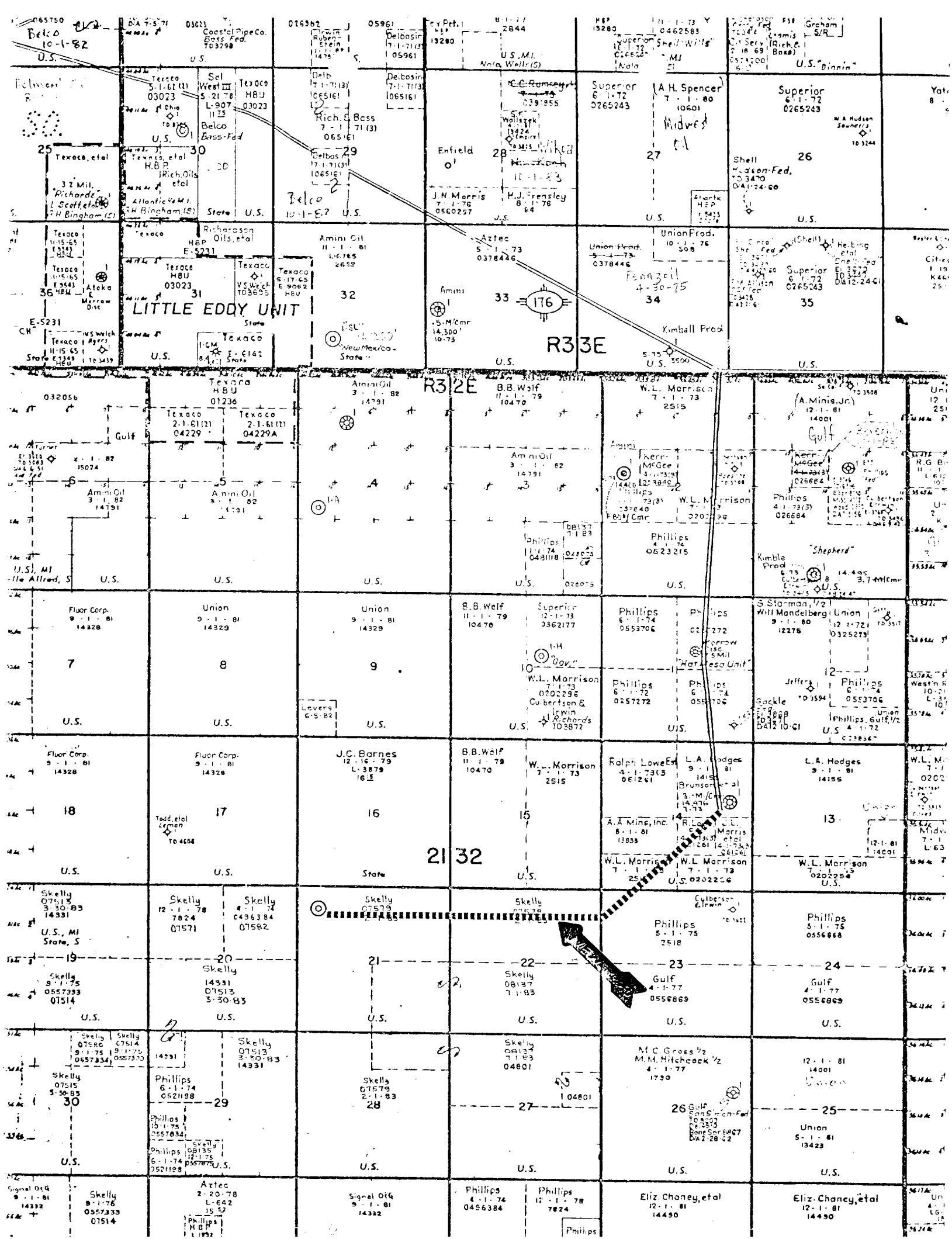
APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

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

All distances must be from the outer boundaries of the Section

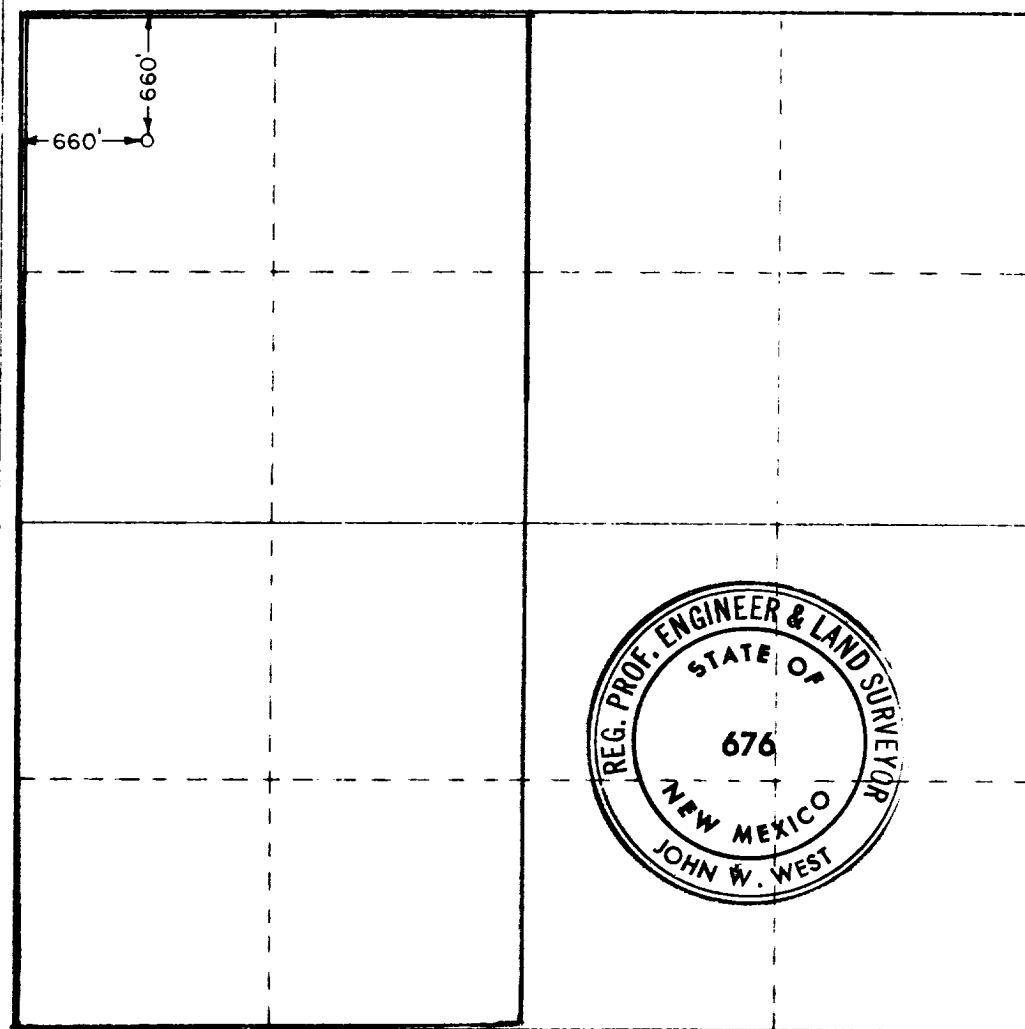
Operator SKELLY OIL COMPANY			Lease SALT LAKE SOUTH UNIT		Well No. 1
Unit Letter D	Section 21	Township 21 SOUTH	Range 32 EAST	County LEA	
Actual Footage Location of Well:					
660		NORTH		660	
feet from the		line and		feet from the	
				WEST	
Ground Level Elev. 3659'		Producing Formation Morrow		Pool Wildcat	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

Name
D. R. Crow

Position
Lead Clerk

Company
Skelly Oil Company

Date
January 21, 1974

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.

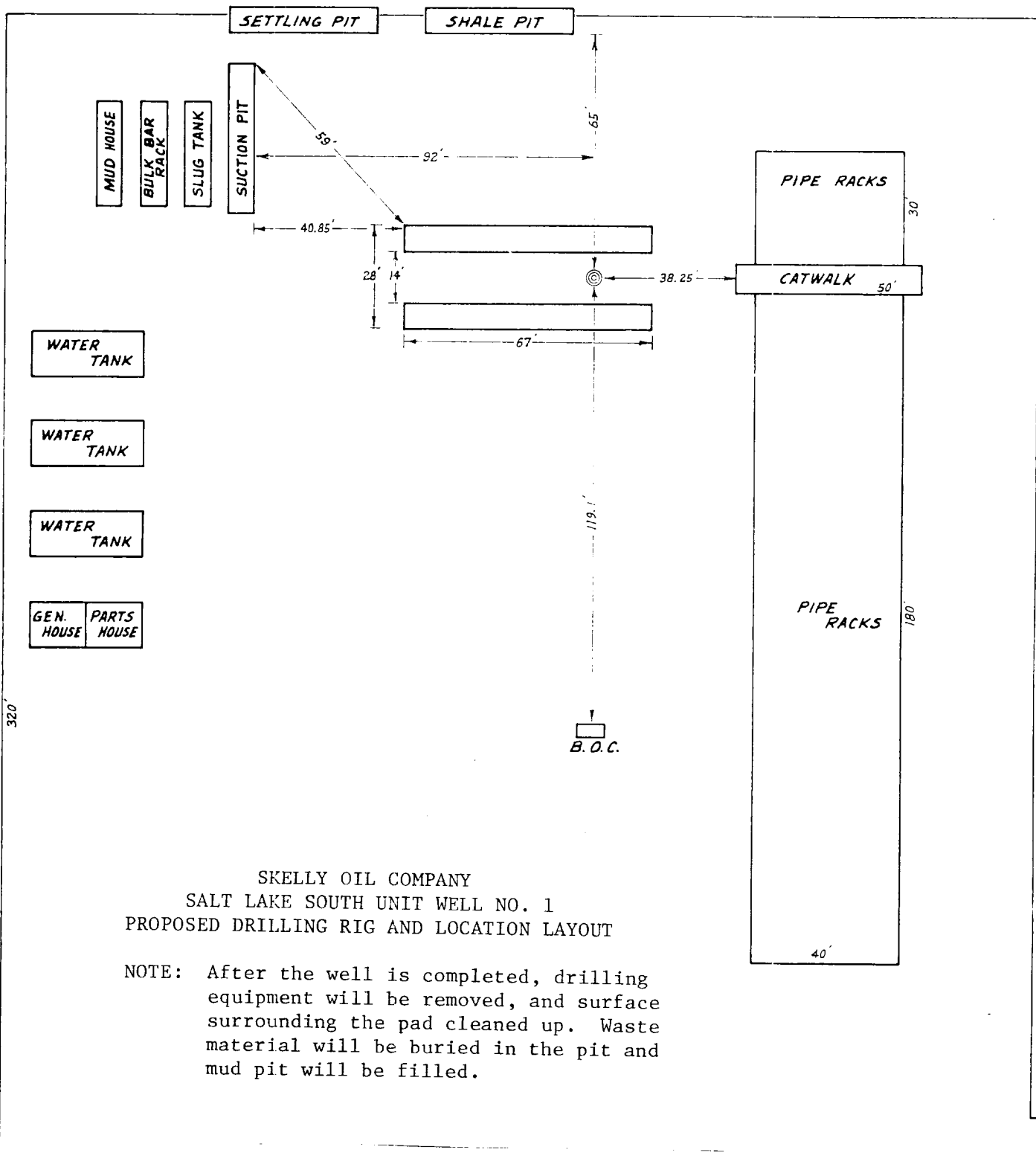
Date Surveyed
January 14, 1974

Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. **676**



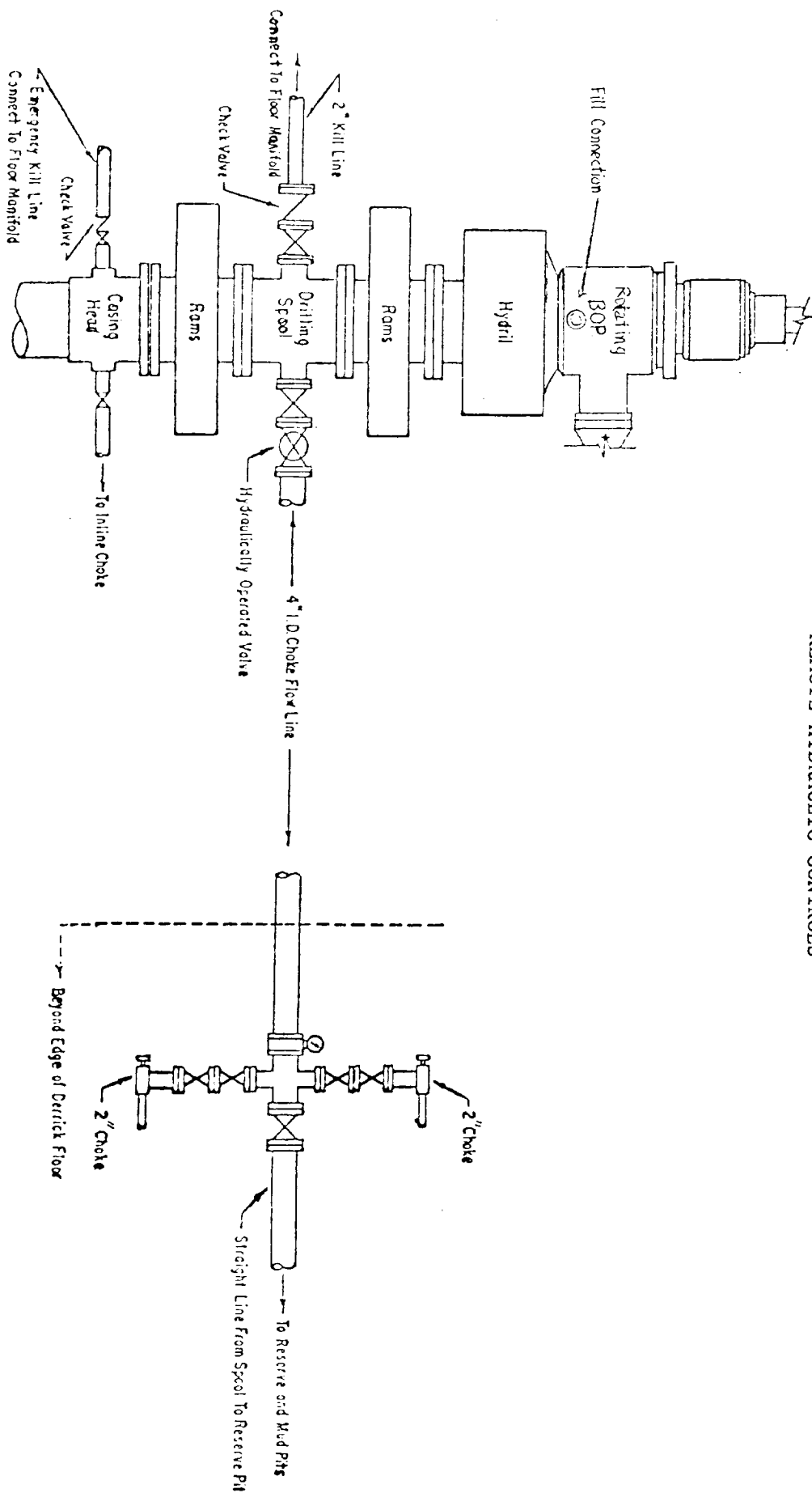
PIT 200' X 200'



SKELLY OIL COMPANY
SALT LAKE SOUTH UNIT WELL NO. 1
PROPOSED DRILLING RIG AND LOCATION LAYOUT

NOTE: After the well is completed, drilling equipment will be removed, and surface surrounding the pad cleaned up. Waste material will be buried in the pit and mud pit will be filled.

SKELLY OIL COMPANY
SALT LAKE SOUTH UNIT NO. 1
BLOW-OUT PREVENTER
5000 PSI. WORKING PRESSURE
REMOTE HYDRAULIC CONTROLS



SKELLY OIL COMPANY
SALT LAKE SOUTH UNIT WELL NO. 1
PROPOSED MUD PROGRAM

<u>DEPTH (FEET)</u>	<u>MUD WEIGHT (PPG)</u>	<u>VISCOSITY (SEC)</u>	<u>FLUID LOSS (ML)</u>
100	8.8	34	No Control
200	9.3	34	No Control
300	9.4	34	No Control
650	9.5	34	No Control
Set 13-3/8" Surface Casing at 650'. Drill out with brine water.			
1,000	9.8 - 10.0	29 - 30	No Control
1,500	9.8 - 10.0	29 - 30	No Control
2,000	9.8 - 10.0	29 - 30	No Control
3,000	9.8 - 10.0	29 - 30	No Control
4,000	9.8 - 10.0	30 - 31	No Control
4,700	9.8 - 10.0	30 - 31	No Control
Set 9-5/8" Intermediate Casing at 4,700'. Drill out with fresh water.			
4,700	8.4 - 8.6	28 - 29	No Control
7,000	8.4 - 8.6	28 - 29	No Control
8,000	8.4 - 8.6	28 - 29	No Control
9,000	8.4 - 8.6	28 - 29	No Control
10,000	8.4 - 8.6	28 - 29	No Control
11,800	8.4 - 8.6	28 - 29	No Control
Set 7-5/8" Second Intermediate at 11,800'. Drill out and then use a non-dispersed system.			
12,000	10.5 - 11.0	38 - 40	10 - 15
13,000	10.5 - 12.0	38 - 40	10 - 15
14,000	10.5 - 12.0	38 - 40	10 - 15

SKELLY OIL COMPANY
Salt Lake South Unit Well No. 1
Proposed Casing Program

<u>Surface Casing</u>	<u>Setting Depth</u>	<u>Safety Factor</u>		
		<u>Collapse</u>	<u>Burst</u>	<u>Tension</u>
13-3/8" 54.50# J-55 ST&C	650'	3.414	8.248	15.44
<u>First Intermediate</u>				
9-5/8" 47# N-80 LT&C	4,700'	1.985	2.871	4.097
<u>Second Intermediate</u>				
7-5/8" 33.7# S-95 FL3S	11,800'	1.177	1.255	1.719
<u>Production Liner</u>				
5" 23.20# S-95 Butt	11,500-14,000'	1.900	1.790	10.56

SKELLY OIL COMPANY

Salt Lake South Unit Well No. 1
Proposed Casing Cementing Program

Surface Casing: (13 3/8 inch x 17 1/2 inch x 650 feet)

1. Run casing with float collar, guide shoe, and three centralizers. (3 lbs. Weld-A)
2. Cement through casing with 350 sacks of Halliburton Light Cement containing 3% Calcium Chloride and 1/4 lb. Flocele per sack; followed by 200 sacks of Class C Cement containing 2% Calcium Chloride.

This amount of cement should circulate. Use one pump truck to mix.

First Intermediate: (9 5/8 inch x 12 1/4 inch x 4700 feet)

1. Run the casing with a float collar, float shoe, and six centralizers. (2 lbs. Weld-A)
2. Cement with 1450 sacks of Halliburton Light Cement containing 1/4 lb. Flocele per sack, 5 lbs. Gilsonite per sack, and 15.6 lbs. Salt per sack; followed by 200 sacks of Class C Cement containing 2% Calcium Chloride.

Use two pump trucks to mix and displace.

Second Intermediate: (7 5/8 inch x 8 1/2 inch x 11800 feet)

1. Run casing with float collar, and float shoe. (1 lb. Weld-A)
2. Cement with 600 sacks Halliburton Light Cement containing 0.5% CFR-2 and 1/4 lb. Flocele per sack; followed by 200 sacks Class H Cement containing 1.5% CFR-2 and 3 lbs. KCl per sack.

Use two pump trucks to mix and displace.

Liner: (5 inch x 6 1/2 inch) 11,500 to 14,000 feet

1. Run the liner with float collar and float shoe. (1 lbs. Weld-A)
2. Cement with 300 sacks Class H Cement containing 3 lbs. KCl per sack, and 1.5% CFR-2.

Use one pump truck.