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United States Department of the Interior

GEOLOGICAL SURVEY P. 0. Drawer U Artesia, New Mexico 88210

December 19, 1978

Beard Oil Company 2000 Classen Center South, Suite 200 2000 Classen Boulevard Oklahoma City, Oklahoma 73106 BEARD OIL COMPANY
Marcy Federal No. 1
1980 FSL 1980 FWL Sec. 27, T9S, R30E
Chaves County Lease No. NM-9209

Above Data Required on Well Sign

Gentlemen:

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 10,200 feet to test the Mississippian 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 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 be not 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 Color #595A, color 20318 or 30318).
- 5. Before drilling below the 8-5/8" casing, the blowout preventer assembly will consist of a minimum of one annular type and 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 Wolfcamp 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 Wolfcamp 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.

Sincerely yours,

(Orig. Sgd.) ALBERT R. STALL

Albert R. Stall Acting District Engineer

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

IN O. C. COM SUBMIT IN TRIPI

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425. 111 5- 21/57

UNITED STATES

	5. LEASE DESIGNATION AND SERIAL NO. NM 2202 6. IF INDIAN, ALLOTTEE OR TRIBE NAME						
APPLICATION	I FOR PERMIT	TO DRILL, DEEP	EN, OR PLUG B	ACK_	U. IF INDIAN, ARROTTES OF TARRE HARD		
ta. Type of Work DRI	LL 🗹	DEEPEN	PLUG BACK		7. UNIT AGREEMENT NAME		
b. TYPE OF WELL	S ELL OTHER		INGLE MULTIP	LE	8. FARM OR LEASE NAME		
2. NAME OF OPERATOR	ELL A OTHER				Marcy Federal.		
Daurd Oil Geo					9. WELL NO.	_	
3. ADDRESS OF OPERATOR 2000 Jlausen 2000 Jlausen	Center South Boulevard, Ob	, Suite 200 clahoma City, Oko nd in accordance with any	alaoma 733.06		10. FIELD AND POOL, OR WILDCAT	-	
4. LOCATION OF WELL (ROAt surface		nu in accordance with the	out requirement,		11. SEC., T., R., M., OR BUK. AND SURVEY OR AREA	_	
At proposed prod. zon	ie				Section 27-ISS-R300		
Same	AND DIPPORTON FROM N	EAREST TOWN OR POST OFFI]E*		12. COUNTY OR PARISH 13. STATE	_	
14. DISTANCE IN MILES	and direction from a	east and north co	- P Roswell. N. M.	,	Chaves Hew Mexic	30	
A DOMOTTIME TOL.		1 16. N	O. OF ACRES IN LEASE	17. NO.	OF ACRES ASSIGNED	_	
LOCATION TO NEAREST PROPERTY OR LEASE I	r		1440	TOT	rhis well. 320		
(Also to nearest drl:	g. unit line, if any)	19301	ROPOSED DEPTH	20. ROT.	ARY OR CABLE TOOLS		
18. DISTANCE FROM PROPOSED LOCATION ^o TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		None	10,2001		Rotacy		
21. ELEVATIONS (Show wh					AS SOOT 2 POSSIBLE		
4036.41	GR				lafter January J. 1979		
23.		PROPOSED CASING AN	D CEMENTING PROGR.	AM		_	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT		
3.7-1/20	13-3/6"	118# or 51# 11	3001		sk regular cerent with C	<u>a</u> C	
					sufficient to circulate		
12-1/4" to 100	b• 8 - 5/8"	24// K55	28001	1	sm lite wa. plus 200 sm regular ceneut on potaom u/2% CaCl		
to 2800#		440- /	70000		•	7 7	
7 -7/ 811	4-1/2" (or 5-1/2")	11.6# M80 (or 17# K55 and N	10260 ' 30)		Micient cement to cover a Spective pay zones plus 5		
	10" Series 90 and 1500! Opens	nular blowout pr	eventer. Opera h dav helom 150	rue baa O t. A	wing 8-5/8" casing and name on all trips bel kelly cock will be in-	.Oĩ	
Gos sales are	o not dedicate	ed.	plug back, give data on p	Fresent pr	oductice fone and problem of the blows PATE 12/5/7 8	ve.	
zone. If proposal is to preventer program, if a	drill or deepen direct	ionally, give pertinent data	on subsurface locations a	and measu	oductive tone and problem and froductive and true vertical depths. Give blows	1t 	
~·· \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	10 V	Per la	Agent for		U. ARTES 12/5/78		
BIGNED COLLE	rand I. Lucier	TITLE _	Heard Oil Compa	317A	DATE		
(This space for Fed	leral or State office use)					
PERMIT NO.			APPROVAL DATE				

NEW TICO OIL CONSERVATION COMMISSION WELL LUCATION AND ACREAGE DEDICATION PLAT

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

Operator		· ·	· · · · · · · · · · · · · · · · · · ·	Lease				Well No.
		Company	,		Marcy Feder	ral		1
Chuit Letter K	Sect	27	Township 9 South	F	Ronge	County	~1	
Actual Fortage Loc	ation		7 300th		30 East	1	Chaves	
1980		t from the Sc	outh line and	198	30 te	et from the	West	line
Ground Level Elev. 4066.4		Producing For		Pool	ilacat	5		Dedicated Acreage: 320 Acres
2. If more the interest as	nan o nd ro	ne lease is valty).		l, outi	ine each and ide	entify the	ownership	thereof (both as to working
3. If more that dated by c	is "n	No If an	nitization, force-pooli swer is "yes," type o owners and tract desc	ng. etc	nted to the well, c? colidation	ctually be	RECI	atted Mississes side of
No allowat forced-poo sion.	i nec	ill be assigne or otherwise)	d to the well until all	intered unit.	ests have been o	consolida ch interes	ited by S. GE	lated (As Size Side of OLOGICAL MEXICO See SIDE OLOGICAL MEXICO SEE SIDE OF OLOGICAL MEXICO SEE SIDE OLOGICAL MEXICO SEE SIDE OLOGICAL MEXICO SEE SIDE OLOGICAL MEXICO SEE SIDE OLOGICAL MEXICO SEC SIDE OLOGICA SEC
LAGINET STAT	R&	ANDSIR			; ; ;		tained he	CERTIFICATION certify that the information con- prein is true and complete to the try knowledge and belief.
HON HEE. PRO	676 N W	+ OR YOR					Position Agento. Company	I. Lucking for Oil Company
•	980						I hernby shown on notes of under my is true of	certify that the well location this plat was plotted from field actual surveys mode by me or supervision, and that the same and correct to the best of my e and belief.
								Professional Engineer d Surveyor
0 330 460 H	, 90 1	1 T 320 1650 1980	2310 2840 2000	1 50	, ,	oq of	7	No. John W. West 676 Ronald J. Eidson 3239

APPLICATECH FOR DRILLING

Brand Gil Company Marcy federal Well No. 1 Section 27-T95-R306 Chaves Jeneby, New Mexico

La conjunction with Form 9-33L3, Application for Permit to Brill subject well, Peard Gil Company submits the following ten items of politicant fuformation:

- 1. The geologic surface formation is alluvium and boldon demosibs, and other surficial deposits.
- 2. The estimated tops of geologic markers are as follows:

 Queen
 2870:
 Atoka
 9250:

 Abo Shale
 6500:
 Atoka Sand
 9600:

 Volfcamp
 7480:
 Vississippi Line
 10060:

3. The dopths at which anticipated water, oil or gas formations are expected to be encountered:

Tater:

No specific data available.

Possibly from Triassic formation.

Oil or gas: Abo: appreximately 6500' to 7430'

Molfcasp: approximately 74301 to 92501 Atoka: approximately 92501 to 100501

"Hisphacippi: approximately 10050' to 10000'

- 4. Proposed easing program: See Form 9-3310.
- 5. Fressure control equipment: See Frm 9-3310 and Exhibit D.
- 6. Fud Program: See Form 9-3310.
- 7. Auxiliary equipment: Blowout preventer, Inside blowout processer, Kelly cook.
- 8. Tabling, logging and coring progress:

Logging: Mud logging equipment will be installed on the well at 5,000.

Open hole logging: Dual Laterolog-STE from base of intermediate easing to total depth.

derma Ray Compensated Neutron Density as directed by well site geologist.

Coming: No coring is anticipated on this well.
Samples: Catch 10' samples from 6000' to total depth.
Drill stem tests: Will be taken if shows are encountered and bale conditions permit.

- 9. We abnormal pressures or temperatures are anticipated.
- 10. Ambicipated starting date: as soon as possible after January 1, 1979. Anticipated completion of drilling operations: approximately ht days after starting date.

MUNTI-POLICE SUMMOR UST AND OPERATIONS MANUELVED

Beard Gil Company
Three Tederal Tell To. 1
1000 TEL and 1000 TEL
1000 TEL 27-195-30D
Three County, New Mexico
(Exploratory Vell)

DEC 5 1978
U.S. GEOLUGICAL SURVEY
ARTESIA, NEW MEXICO

This plan is submitted with fore 1-3310, Application for forming the brief, one ming the above described of it. The purpose of this plan is to describe the location of the proposed of it, is proposed construction activales and operations plan, the magnitude of the necessary surface disturbance involved, and the procedures to be followed in relabilitating the surface after completion of the operations, so that a complete approximation to each of the environmental effects associated with the operation.

1. EMISTERS ROADS.

- A. Exhibit A is a rear lay of the area surrounding the wellsite, on a scale of 1/2 inch so a cile, showing in red the cristing access reads leading to the proposed location. The wellsite is located approximately 42.6 miles cash and north from the intersection of highways 380 and 285 in coswell, New Mexico (exclusive of the leagth of the proposed new access read).
 - (1) Proceed east on Highway 300 from the intersection of lighways 360 and 285, for a distance of approximately 35.65 miles. At this point, turn less (north) on a dirt read, indicated by several signs it always a red and yellow sign reading "Shelk 311 Co. Cato Fleto."
 - (2) Continue in a generally northbound direction for a distance of approximately 5.3 miles, at which point you will cross a cautle guard with a chosed, but not locked, gate. There is a plastic gallon jug hanging from the gate, as a means of identification.
 - (3) Emmodiately after passing the cattle guard, turn right (east) on an eastbound ranch road running along the nerth side of a fence, and continue east for about 1.05 miles. En route, you will pass a windmill after about 0.25 miles, and two additional windmills after about another 0.45 miles. About 0.35 miles after passing the two windmills (1.05 miles after entering the ranch road), bern fell (north) on another ranch road for a distance of approximately 0.35 miles. The new access road to the location will begin at that point on the right (east) side of the ranch road and is clearly marked with surveyor's ribbons.
- B. The existing ranch road is on fee surface owned by the Unite Lake Ranch. This road will be improved by blade scraping and the surface will be covered with an appropriate thickness of compacted calibbe. The driving surface of the road will be 12 feet in width and the road will be crowned in the center, with drainage on both sides. Turnouts will be constructed at approximately 1/4 mile intervals. To cataloguards or fences are involved.

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C. There are several points along the route of the dirt road (Cato road) leading north from Highway 285 which may require repair work in order to make the road satisfactory for the transportation of a drilling rig and for other heavy truck tradic, to and from the proposed location.

2. PLANTIED AUGUSS ROAD.

- A. The planned new access read will be built in a generally vest-to-east direction, and will be approximately 1840 feet in length. The driving surface will be 12 feet in width. The ground surface ever the route of the proposed route is relatively level, with only minor surface unbulations. The surface of the road will be covered with six faches of compacted callede and the center of the road will be crowned, with drainage on both sides of the road. One turnout will be constructed midway in the length of the road. To culverts will be necessary, and no cattle guards or fences are involved.
- P. The center line of the proposed new road has been staked and flagged, and the route of the road is clearly visible.

3. LOCATION OF MAISTING THICH.

- A. Other drilling activity in the vicinity of the proposed well is indicated in Exhibit b. The nearest production is an oil well in Section 32, where Were is also a shut-in gas well.
- 4. LOCATIO ! OF EXISTING AND/ON PROPOSED PACIFILIES.
 - A. There are no production facilities on this lease at the present time.
 - 3. In the event that the well is productive, the necessary production facilities will be constalled on the drilling pad. If the well is productive of oil, a got or diesel self-contained unit will be used to provide the necessary power. To power will be required if the well is productive of gas.

S. LOCATION AND TYPE OF LARMS SUPPLY.

- It is planned to drill the proposed well with a freen unter system. The water will be obtained from privately owned or commercial sources and will be hauled to the location by truck over the existing and proposed made shown in Exhibit A.
- 5. SOUNCE OF CONSTRUCTION TARE LIABS.
 - A. Any caliche required for construction of the drilling pad and the new access road, as well as for any resurfacing or repair of the existing access roads, well be obtained either from privately owned sources or from an existing federally-owned pit, and will be hauled to the location over the existing and proposed roads shown in Exhibit A.

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- 7. TENHODS OF MADLING WASTE LEBPORAL.
 - A. Drill cuttings will be disposed of in the reserve pits.
 - D. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
 - O. Mater produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the USGS for approval.
 - D. Oil produced during operations will be collected in tanks until sold.
 - I. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - F. Trash, waste paper, garlage and junk will be beried 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.
 - G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.
- O. ANCILLARY PACILITIES.
 - A. Home required.
- 9. WELLSI'L LAYOUT.
 - A. Exhibit C shows the relative location and dimensions of the well pad, reserve pits, and major rig components.
 - P. Only minor cut and fill will be necessary to level the drillsite location. It is estimated that a cut of approximately 2 feet will be necessary along the southern and eastern portions of the pad area. The remaining area of the proposed pad is relatively flat, with only minor surface undulations.
 - 3. The reserve pits will be plantic-lined.
 - 2. The pad and pit area has been surveyed, staked and flagged.
- 10. PLANS FOR RESTORATION OF THE SURFACE.
 - A. After finishing drilling and/or completion operations, all equipment and other naturals not needed for further operations will be removed. Pits will be filled and the location cleaned of all trash and junk in order to leave the wellsite in as aesthetically pleasing a condition as possible.
 - B. Any unguarded pits containing fluids will be fonced until they have been filled.
 - C. If the proposed well is non-productive, all rehabilitation and/or

Board Oil Co. Marcy Federal #1 Page 4

vegetation requirements of the Eureau of Land Management and the U.S. Geological Survey 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. CTHIR INFORMATION.

- A. Topography: The proposed wellsite is located in an area which is relatively level, with occasional minor undulations and variations in surface level.
- B. The topscil at the wells to is soft sandy loam.
- C. Flora and Fauna: The vegetation cover at the location is sparse, consisting of miscellancous prairie grass and weeds, mesquite, and shinnery. No wildlife was observed, but it is likely that the area is inhabited by typical semi-arid desert wildlife. The area is used for cattle grazing.
- D. There are no occupied durllings within several miles of the location. The nearest windmills (two) are located about 1980 feet south and about 1/2 mile west of the drillsite, and there is another windmill about an additional 1/2 rile west of these two.
- E. There are no ponds, lakes, or flowing rivers or streams within several miles of the wellsite.
- F. Surface ownership: The wellsite is on fee land owned by the White Lake Ranch. Minerals are federally owned. An agreement has been reached between Beard Oil Company and the White Lake Ranch concerning surface damages and restoration of the surface, after operations have been completed.
- G. There is no evidence of any significant archeological, historical or cultural sites in the area of the proposed location. An archeological survey has been conducted by the Agency for Conservation Archaeology, Eastern New Mexico University, Portales, New Mexico, and their report has been submitted to the appropriate government agencies.

12. OPERATOR'S REPRESENTATIVE.

A. The representative of Leard Oil Company responsible for assuring compliance with the approved surface use plan is:

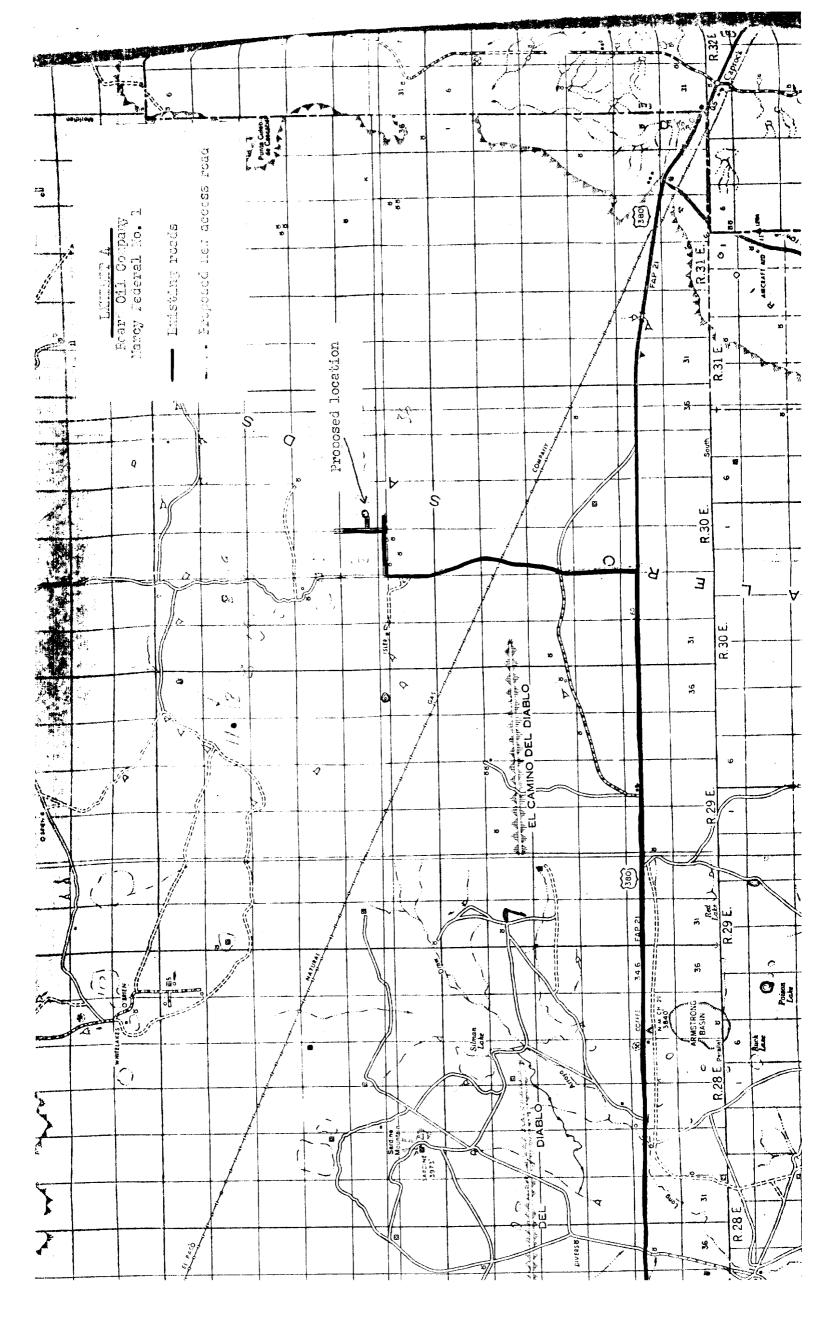
James W. Vater, Jr.
Vice President - Operations
Enard Oil Company
Suite 200
2000 Classen Center South
2000 Classen Boulevard
Oklahoma City, Oklahoma 73106
Telephone: 405-528-2323 (office)
405-751-4738 (home)

Deard Oil Co. Marcy Federal #1 Page 5

13. CERTIFICATION.

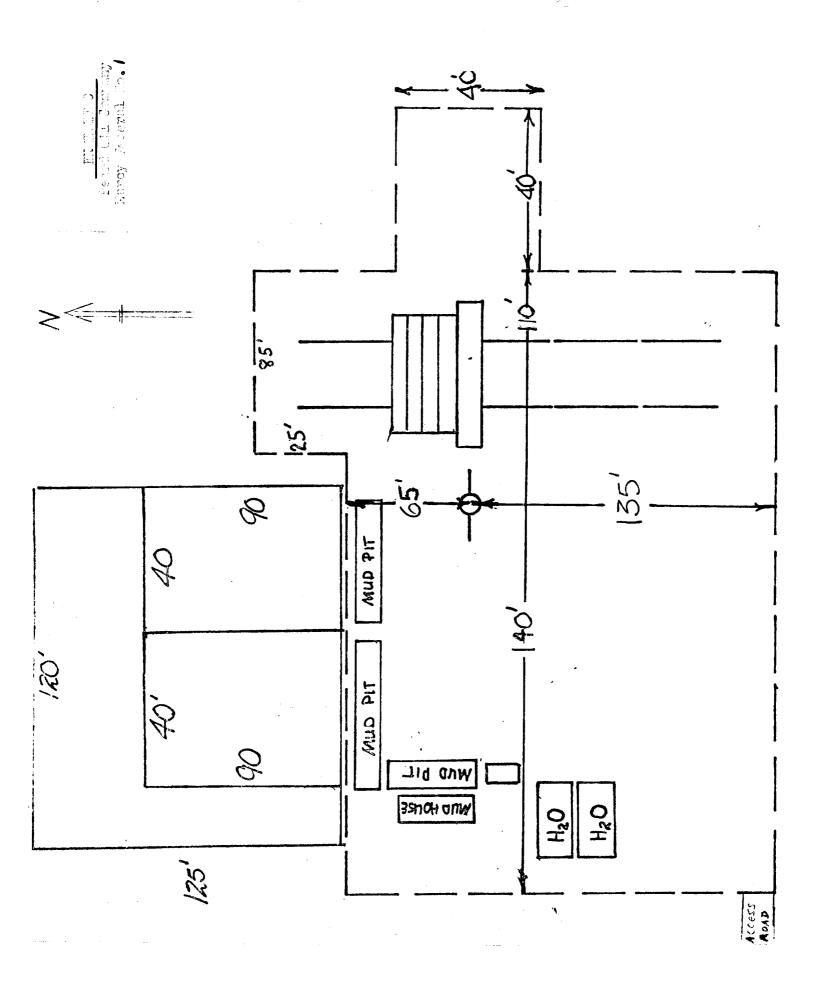
I hareby certify that I, or persons under my direct supervision, bave inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operations proposed herein will be performed by Deard Oil Company and its contractors and subcontractors in conformit; with this plan and the terms and conditions under which it is approved.

Agent for Beard Oil Company



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