SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

30-031-2053

	DEP/	ARTMENT	OF THE I	NTE	RIOR		5. LEASE DESIGNATION AND SERIAL NO.				
•.		GEOLO	GICAL SURV	ΕY			NM-5981				
	N FOR	PERMIT T	O DRILL, I	DEEP	EN, OR PLUG	BACK	6. IF INDIAN, ALLO	TTEE OR TRIBE NAME			
1a. TYPE OF WORK	ILL 🛛	•	DEEPEN		PLUG BA	ACK 🗌	7. UNIT AGREEMEN	T NAME			
b. TYPE OF WELL											
WELL LX V	VELL	OTHER			ONE ZONE	TIPLE	8. FARM OR LEASE	NAME			
2. NAME OF OPERATOR							Star Lake	<u> </u>			
Engineering F	<u>roduct</u>	<u>ion Servi</u>	ce Inc.								
3. ADDRESS OF OPERATOR							10. FIELD AND POO	IL OR WILDCAT			
Box 190; Farm 4. LOCATION OF WELL (F	nington Report locati	NM 874 on clearly and	Ol in accordance wit	th any S	State requirements.*)	······································	Wildcat-Pa	Lesquede			
4 660' F	FNL & 60	50' FEL					11. SEC., T., R., M., AND SURVEY O	OR BLK. R AREA			
At proposed prod. zon	ne					•	C OC TOO	N DCL			
14. DISTANCE IN MILES	AME DIRECT	ON PROM NEAD	Wen TOWN OF BOS	T OFFIC	r.*		Sec.26-T20				
14. DISTANCE IN MILES	AND DIRECT.	ON FROM NEAR	LEST TOWN OR TOS	1 OFFIC	-		McKinley	NM			
15. DISTANCE FROM PROP	OSED*			1 16. NO	O. OF ACRES IN LEASE	17. NO.	OF ACRES ASSIGNED	1 IVII			
LOCATION TO NEARES PROPERTY OR LEASE	T LINE, FT.			ĺ	2560	TO ?	THIS WELL				
(Also to nearest drl 18. DISTANCE FROM PROI	POSED LOCAT	ION*		l	OPOSED DEPTH	20. ROT	ARY OR CABLE TOOLS				
TO NEAREST WELL, I OR APPLIED FOR. ON TH	RILLING, CO	MPLETED,			2750]	Rotary				
21. ELEVATIONS (Show wh				1	-750		<u>-</u>	WORK WILL START			
6710 G.L.							May 1,	1978			
23.		P	ROPOSED CASI	NG ANI	CEMENTING PROG	RAM					
SIZE OF HOLE	SIZE	F CASING	WEIGHT PER F	оот	SETTING DEPTH	1.	QUANTITY OF CEMENT				
12 ¼	1	3 5/8 (ne	w) 20		100		100 sk.				
7 7/8		1 ½(new)	9.5		2750		325 sk.				
(See attachme	E PROPOSED drill or dee	PROGRAM: If p	proposal is to deep lly, give pertinent	pen or I t data (olug back, give data on on subsurface locations	present pro	ductive zone and proed and true vertical d	posed new productive lepths. Give blowout			
8IGNED ONN	Alexano	Olfan	rde 111	FLE	AGENT		DATE 4-	25-78			
(This space or Fede	eral or State	office use)						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
PERMIT NO.					APPROVAL DATE		RECE	WEM			
CONDITIONS OF APPROV	/AL, IF ANY:		#n	TLE			APR-2 3	1978-			
ok Frank	k e						II S GEOLOGICAL	Partie was			

UNITED STATES

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY DURANGO, CO. O.

MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section Well No. I Lease Operator 1 STAR LAKE INC. ENGINEERING AND PRODUCTION SERVICE, County Township Section Unit Letter McKINLEY WEST 20 NORTH 26 Actual Footage Location of Well: EAST 660 feet from the NORTH 660 feet from the Dedicated Avereage: Pool Producing Formation Ground Level Elev. 40 Acres Wildcat Mesa Verde (Point-Lookout) 6710 1. Outline the acerage 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?

If answer is "yes," type of consolidation) Yes () No If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forcedpooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

FARMINGTON, N. M.

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. John Alexander Position Agent Company Engineering & Production Service Date 4-25-78 I hereby certify that the well location shown on this plat was plotted from field aptes of actual surveys made by me or under my supervision, and

that the same is true and correct to the best of my WEN WE knowledge and belief, &

7 April Date Surveyed

Registered Professional Engineer and/or Land Surveyor James P. Leese

Certificate No. 1463

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SAN JUAN ENGINEERING COMPANY,

Engineering & Production Service, Inc.

Formation Information and Drilling Practices

WELL:

Star Lake #1

LOCATION:

660' FNL & 660' FEL Sec. 26- T20N-R6W McKinley Co., NM

LEASE NUMBER:

NM-5981

Geologic name of surface formation. 1)

Kirtland

Estimated tops of important geologic markers. 2)

La Ventata	852
Chacra	1210
Cliff House	1756
Menefee	1818
Point Lookout	2652

Estimated depths at which anticipated water, oil gas or other mineral-3) bearing formations are expected.

2652' - oil & gas

Proposed casing program. 4)

Surface: 8 5/8", 20#, K-55, new casing to be set at 100'. Cement will

be with 100 sk. Class "B" + 2% gelt 0.5% CaCl2.

Production: $4\frac{1}{2}$ ", 10.5#, K-55, New casing to be set at 2750'. Cement will be 325 sk. Class "B" + 2% gel +0.5% CFR-2.

5) Specifications for pressure control equipment.

> The attached schematic shows the type of blow out preventer to be used while drilling. The unit will be tested to 800 psi with the rig pump prior to drilling from under surface. Both blind and pipe rams will be tested. Operation of the hydraulic system will be checked daily.

6) Drilling fluids.

Depth	Type	Vixcosity	Weight	Fluid Loss(cc)		
0-100	gel-lime	35-45	8.6-9.0	N/C		
100-2600	low-solids	29-33	8.4-8.8	15		
2600-2750	gel-chem	35-40	8.8-9.4	8		

- 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 log

Formation Compensated Density

Gamma Ray Caliper

Page 2

8) Coring:

None Drill Stem Testing:

None

9) Abnormal temperatures, pressures, or hazardous conditions.

None Expected.

10) Starting date.

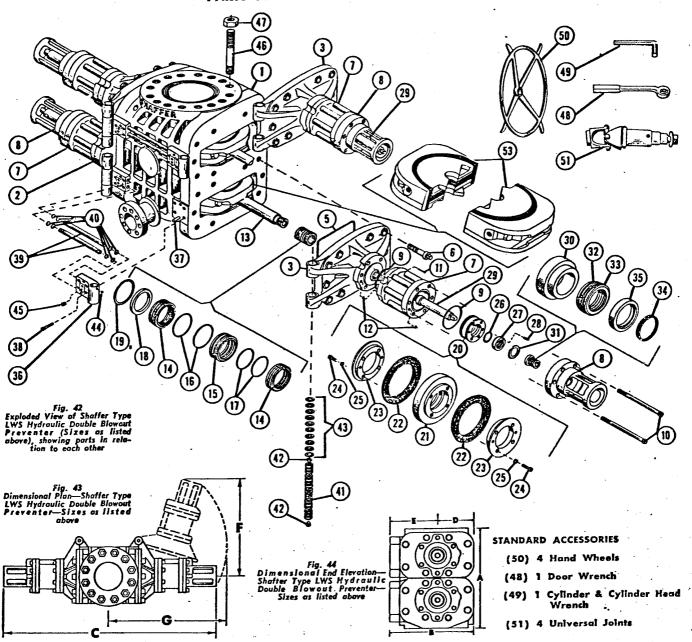
Anticipated starting date is May 8, 1978. Approximately 6 days will be needed to build roads and location and drill the well to total depth. If commercial, completion will commence immediately and require 10 days.

SHAFFER HYDRAULIC BLOWOUT PREVENTERS

(Patented)

TYPE LWS PREVENTERS—8", 3000 Lb. & 5000 lb.—10", 5000 Lb. 12", 3000 Lb.—135%", 5000 Lb.—16", 3000 Lb.

PARTS AND DIMENSIONAL ILLUSTRATIONS



DIMENSIONAL AND ENGINEERING DATA ON ABOVE SIZES OF TYPE LWS PREVENTERS

Refer to Figs. 43 and 44

		Approx.Weight		A			3	С	D	E	7	G	1							
	Max.					be.	Height			1				Deer	Door			U.S. Gala.	U.S. Gala	
	Service Press.	Tost		Max.	Studde	d Flange	Sin	gle	Don	ble	1		Center	Center	Open To	Open			Fluid	Flaid
Size	Rating	Press.	Vertical Bore		Single	Double	Studded Flange	Bolted Flange	Studded Plange	Bolted Flange	Width	Length	To Front	To Rear	Change Rams	Change Rams	Closing Ratio	Opening Ratio	Close Rams	Open Rems
<u></u>	3,000 5,000	8.000	9"	7°		3,900 3,900		••••	2934° 2934° 23°	4155	2534"	7912	1174.	1456° 1456° 166°	23° 23°	46" 46"	5.6 to 1 5.6 to 1	1.89 to 1 1.89 to 1	2.75 2.75	2.3
10"		10,000	11° 1356°	85/6" 103/4"	5,000	7,000 6,300	243/6"	3436"	23 ⁷² 2434"	41 % 45 % 50 % 47 % 40 %	283	8014	1237	1816	27"	46" 83"	5.5 to 1 5.56 to 1	1.5 to 1 1.89 to 1	2.25 3.55	2.7 2.9
1374		10,000	134°	10%	6,800	9,700	261/6"	36%	36" 35"	4976	25 % 25 % 28 % 31 % 33 % 55 %	79 / 79 / 79 / 79 / 79 / 79 / 79 / 79 /	13 %	1814 1814 2014	41"	54" 60"	5.56 to 1 5.56 to 1	1.5 to 1 1.89 to 1	3.55 3.5	2.9

Engineering and Production Service, Inc.

Surface Development Plan

WELL:

Star Lake No. 1

LOCATION:

660' FNL & 660' FEL Sec. 26-T20N-R6W McKinley Co., NM

LEASE NUMBER:

NM-5981

1) . Existing roads. (Shown in green)

The attached topographic map shows all existing roads within three (3) miles 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 1 mile long. No cut, fill, turnouts, or culverts will be needed. No fences, gates or cattle guards will be crossed. Maximum grade will be 5%. Water bars will be used where needed to aid drainage and help prevent erosion.

Location of existing wells.

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

4) Location of existing production facilities.

All production facilities are to be contained within the proposed location.

Engineering & Production Service, Inc. does not own or control any tank batteries, production facilities or production, gathering and service lines within three miles of the proposed location.

5) Location and type of water supply.

Water for drilling will be trucked from Chapman's water hole, approximately 35 miles northwest 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 during 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 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 back-filled with dirt prior to preparing the location for production or abandonment.

Page 2 (cont.)

7) Any solid waste that can not be buried will be taken from the location and properly destroyed.

Al portable chemical toilet will be supplied for human waste.

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 daily 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 can not 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 one mile west of the Continental Divide at Ceja Del Raton Mesa. The site has a small westerly slope. The area is sandy and is covered with sage brush and native grasses. There is evidence of sheep and small animal life in the area.

Surface at this location belongs to the State of New Mexico.

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.

Page 3 (cont.)

12)

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

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 Engineering & Production Service, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

4-25-78

ohn Alexander

exander

