

FORM APPROVED OMB No. 1004-0135

DEPARTMENT OF T		2		
DEPARTMENT OF T BUREAU OF LAND N		5. Lease Serial No.		
-101. §	TO DRILL OR REENTEN 16 65 7	ეე SF-078860		
PLICATION FOR PERMIT	TO DRILL OR REENTER 15	6. If Indian, Allottee or Tribe Name	•	
PARTIES DRILL REENTER	RECEIVED	7. If Unit or CA Agreement, Name	and Ma	
BANDER DRILL DIRECTION	_		and No.	
	070 FARMINGTON	8. Lease Name and Well No.		
lb. Type of Well: XXOil Well [] Gas Well	er 🛭 Single Zone 🔲 Multiple Zone	Largo Federal E	3 #2	
	KURT FAGRELIUS E-Mail: kfagrelius@duganproduction.com	9. API Well No. 30-045-33/73	3	
3a. Address 709 EAST MURRAY DRIVE	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory		
FARMINGTON, NM 87401	Ph: 505.325.1821 Fx: 505.327.4613	Bisti Lower Gallup		
4. Location of Well (Report location clearly and in accordance	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. and Sur	vey or Area	
At surface 590' FNL and 1950' FWL, Lat. 36.1818, Long. 107.4642  At proposed prod. zone Same as above				
14. Distance in miles and direction from nearest town or post of Approx. 5 miles SE of Blanc		12. County or Parish SAN JUAN	13. State NM	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated to this w	veil	
590 feet	2, 240.0 Acres	N/2 NW/4, (80-a	ac.)	
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depth	20. BLM/BIA Bond No. on tile		
Approx. 1800 feet	5,400 feet			
21. Elevations (Show whether DF, KB, RT, GL, etc.	22. Approximate date work will start	23. Estimated duration		
G.L. 6746'	ASAP	8 days	<u> </u>	
	24. Attachments			
The following, completed in accordance with the requirements of	Onshore Oil and Gas Order No. 1, shall be attached to the	nis form:		
Well plat certified by a registered surveyor.	4. Bond to cover the operation	as unless covered by an existing bond	on file (see	

- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

23. Signature Kurt Tagorlin	KURT FAGRELIUS	6-15-2005
Title GEOLOGIST		
Approved by (Signature)	Name (Printed/Typed)	Date 5 14 08
Alme Reld Manager	- Minerals	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

A water based gel-mud will be used to drill surface and production casing hole. Standard 2,000 psi BOP will be used to drill production hole. Open hole logs will be run, productivity of the Gallup interval will be determined, casing will be cemented, perforated and the interval will be fracture stimulated.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

District I PO Box 1980, Hobbs, NM 88241-1980

District II
 PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico. Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

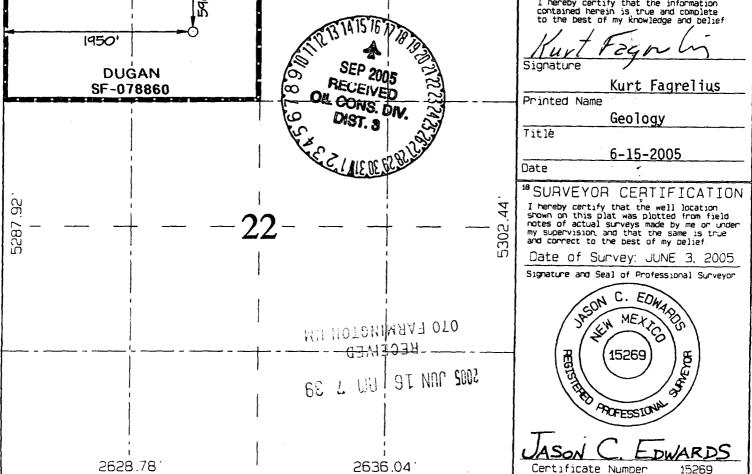
Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

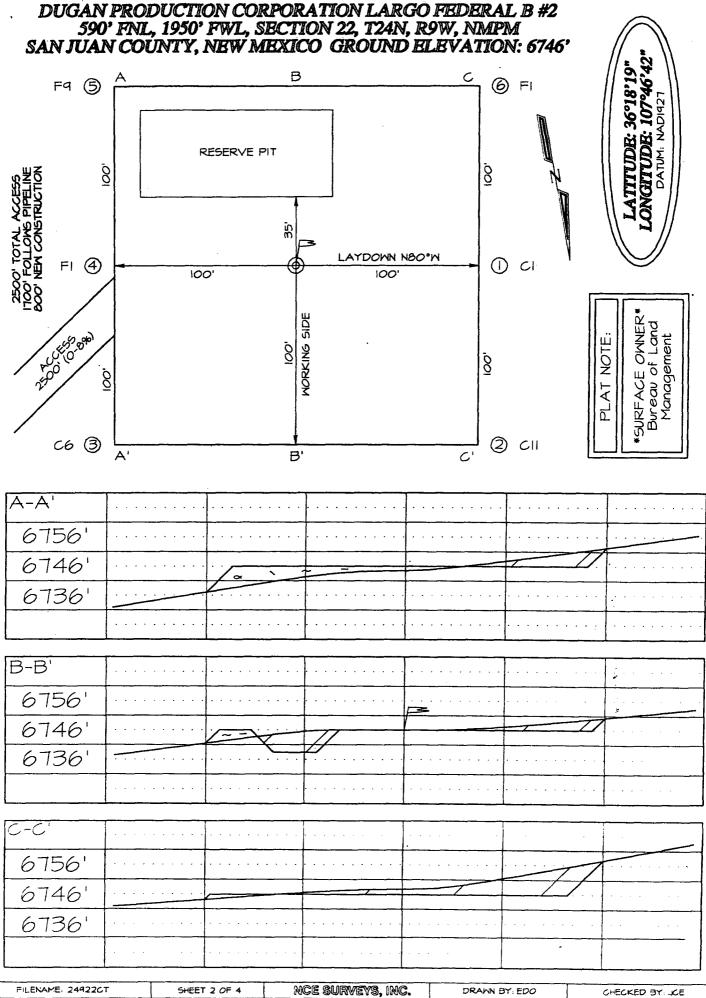
AMENDED REPORT

Form C-102

			WELL	LOCAT	ION AND A	CREAGE DED	ICATION PL	_AT		
, Α	PI Numbe	r		*Pool Coo 5890	ie	DICT	Pool Nam			
				2090			I LOWER - (			
*Property	Code				*Property Name *Well Number					
'OGRID N 00651				DHCAN	*Operator	Name ON CORPORATI	·ON	•	*Elevation.	
15900		: 				JN CORPORATI	.UN		6746	
						Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
C .	22	24N	9W		590	NORTH	1950	WEST	SAN JUAN	
		11 🖯	Bottom	Hole L	ocation I	f Different	From Surf	ace		
UL or lat no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acres	80.0	Acres -	(N/2	NW/4)	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.	1	,	
NO ALLOW	ABLE W	ILL BE A	ASSIGNE NON-ST	D TO TH 'ANDARD	IS COMPLETI UNIT HAS BE	ON UNTIL ALL EEN APPROVED	INTERESTS H BY THE DIVI	AVE BEEN CO SION	NSOLIDATED	
16		£	-095 -52	280.00	2141516	A)	17 OPER I hereby contained to the D	ATOR CERT: certify that the d herein is true a best of my knowledge	IFICATION information and complete pe and belief	
,		AN		8.0%	SEP 20	25 D. 7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	Signatur		grelius	
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Submit 3 Copies To Appropriate District Office	State of New Me Energy, Minerals and Natu			Form C-103 May 27, 2004
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Ministrals and Mark	au resources	WELL API NO. 30-0	
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210 <u>District III</u>	OIL CONSERVATION 1220 South St. Fran		5. Indicate Type of Lea	se Federal XX
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87		6. State Oil & Gas Lea	FEË se No.
1220 S. St. Francis Dr., Santa Fe, NM 87505			Federal SF-0	78860
SUNDRY NOT	ICES AND REPORTS ON WELLS		7. Lease Name or Unit	Agreement Name
	OSALS TO DRILL OR TO DEEPEN OR PLI ICATION FOR PERMIT" (FORM C-101) FO		Largo Federa	1 B
1. Type of Well: Oil Well XX	Gas Well Other		8. Well Number 2	
2. Name of Operator Dugan	Production Corp.		9. OGRID Number 006	5515
3. Address of Operator 709 East Murray D	505-325-18 Prive, Farmington, NM 8		10. Pool name or Wildo Bisti Lower	cat Gallup (0)
4. Well Location	590 feet from the north	10	50	west
Unit Letter C :		line and 19		inty San Juan
Section 22	11. Elevation (Show whether DR)			nty San Guan
	GL-6746'			
Pit or Below-grade Tank Application  Pit type DrillingDepth to Groundy		yater well Dista	nnce from nearest surface wat	ter 400 '
Pit Liner Thickness: mi	Below-Grade Tank: Volume	bbls; Co	nstruction Material	
12. Check	Appropriate Box to Indicate N	ature of Notice,	Report or Other Data	
NOTICE OF IN	NTENTION TO:	SUBS	SEQUENT REPOR	T OF:
PERFORM REMEDIAL WORK		REMEDIAL WORK	C ALTE	RING CASING
TEMPORARILY ABANDON PULL OR ALTER CASING	CHANGE PLANS  MULTIPLE COMPL	COMMENCE DRIE CASING/CEMENT	<del></del>	DA 🗆
OTTILIT.	r drilling (unlined)	OTHER:		
13. Describe proposed or comp	pleted operations. (Clearly state all pork). SEE RULE 1103. For Multip	pertinent details, and	give pertinent dates, inc	luding estimated date
or recompletion. A wate	er based gel-mud will be	e used to dri	ach wendore diagram of 11 surface and p	proposed completion production
casing hole. St	tandard 2,000 psi BOP w	ill be used t	o drill producti	ion hole.
Open hole logs v	vill be run, the Gallup	interval eva	luated and if de	etermined
	ing will be run, perforant and abandoned as per BL			. PILS WIII
be constructed t	ing abandoned as per be		o, upp.o.u	
			TE 13 14 15 16 2	
		(60)	BEP 2000	
	•	[· 0	PECENVED RECONS	
		267	CONS DIV.	
		\$ -2x		
			1/1/200 03/07/2011	
			CE OF PC Broke	
I hereby certify that the information	above is true and complete to the be	st of my knowledge	and belief. I further certif	y that any pit or below-
	r closed according to NMOCD guidelines will be constructed and		s per BLM condit	ions of approval.
SIGNATURE furt F	TITLE G	eologist	DAT	E 6-15-2005
Type or print name	E-mail ad	dress:	Telephor	ne No.
For State Use Only	4/1		PART A	CER + B AAA-
APPROVED BY:  Conditions of Approval (if any):  W/N/M OCL	TITLE	TY OR. & GAS INS	DAT	E 3FL 1 0 5002
Conditions of Approval (if any):	its will be constr	incoted and	abandoned in	compliance
WINMOCL	, pries una gridei	iius,		



# EXHIBIT B OPERATIONS PLAN

Largo Federal B #2

#### APPROXIMATE FORMATION TOPS:

Ojo Alamo	545 <i>'</i>	Cliff House	2420'
Kirtland	615′	Menefee	3015′
Fruitland	1185′	Point Lookout	4035′
Pictured Cliffs	1565′	Mancos	4235′
Lewis	1720′	Gallup	4950′
		Total Depth	5400′

Catch samples every 10 feet from 5050' to T.D.

#### LOGGING PROGRAM:

IES and CDL logs will be run from total depth to surface.

#### CASING PROGRAM:

Hole	Casing		Setting	Grade and
Size	Size	Wt./ft.	Depth	Condition
$\frac{12-1}{4}$	8-5/8	24#	200	J-55
7-7/8	4-1/2	10.5#	5,400	J-55

Plan to drill a 12-1/4" hole and set 200' of 8-5/8" OD, 24#, J-55 surface casing. Then plan to drill a 7-7/8" hole to total depth with gel-water mud program to test Gallup interval. Plan to run IES and CDL logs. If determined productive, will run 4-1/2", 10.5#, J-55 production casing, selectively perforate, frac, clean out after frac and complete well.

#### CEMENTING PROGRAM:

Surface Cement to surface with 125 cf Class B + 2% CaCl<sub>2</sub>. Circulate to surface.

1st Stage Cement with 50/50 "B" Poz with 2% gel + 1/4# flocele/sk (400 cf).

Total cement slurry for 1st state is 400 cf.

Projected top for 1st stage is 4350'.

2<sup>nd</sup> Stage Cement with 65/35 "B" Poz with 12% gel + ¼# flocele/sk (1370 cf) followed by 50/50 "B" Poz with 2% gel + ¼# flocele/sk (100 cf).

Circulate to surface.

Total cement slurry for 2<sup>nd</sup> stage is 1570 cf.

Total cement for both stages is 1970 cf.

An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement. An adequate number of casing centralizers will be run through usable water zones to ensure that casing is centralized through these zones. The adequate number of centralizers will be determined based on API standards. Centralizers to impart a swirling action around the casing will be used just below and into the base of the lowest usable water zone. These devices will assist mud displacement, increase cement bonding potential and create an effective hydraulic seal. A chronological log will be kept which records the pump rate, pump pressure, slurry density, and slurry volume for the cement job. The log will be sent to the BLM after completion of the job.

### WELLHEAD EQUIPMENT:

Casinghead 8-5/8" X 4-1/2" 2000# WP-screwed wellhead. Tubinghead 4-1/2" X 2-3/8" 2000#WP-screwed wellhead.

**BOP and Related Equipment** will include for a 2000 psi system: (Exhibit D)

Annular preventer, double ram, or 2 rams with one Being blind and one being a pipe ram.

Kill line (2" minimum)

1 kill line valve (2" minimum)

1 choke line valve

2 chokes

Upper kelly cock valve with handle available Safety valve and subs to fit all drill string connections in use.

Pressure gauge on choke manifold.

2" minimum choke line.

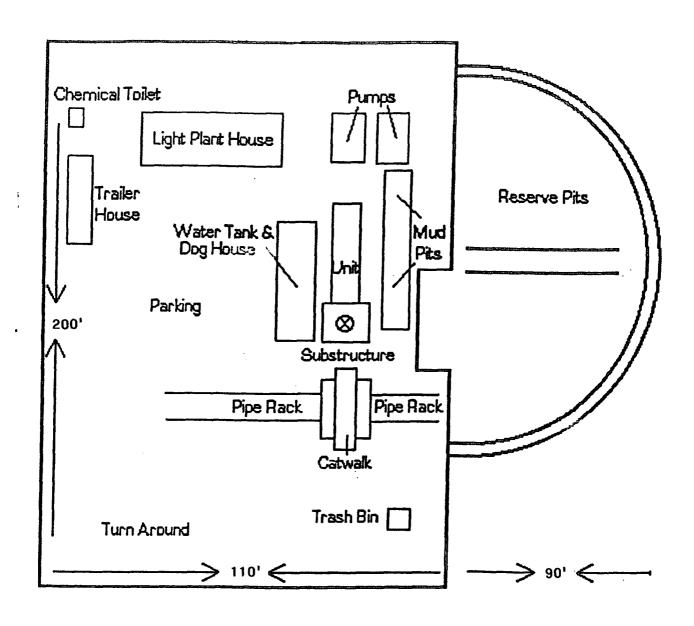
Fill-up line.

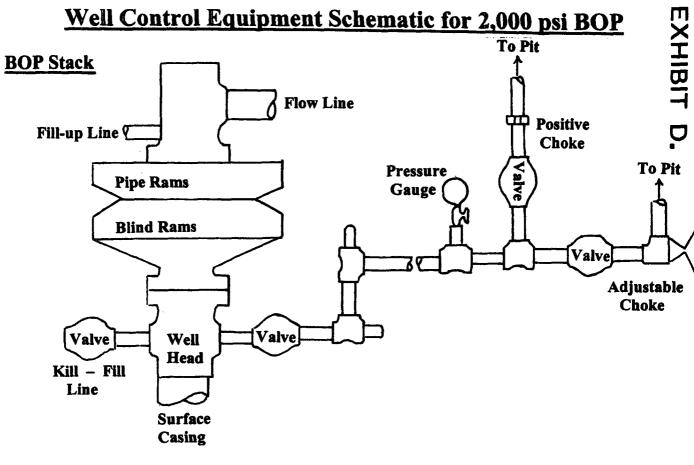
### Contacts:

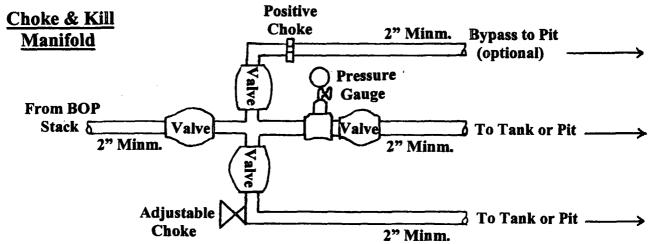
Dugan Prod.Corp. Office & Radio Dispatch: 325-1821

Mark B	rown	327-363	2	(H)
		320-824	:7	(M)
Kurt Fa	agrelius	325-432	7	(H)
		320-824	8	(M)
John Al	lexander	325-692	7	(H)
		320-193	5	(M)

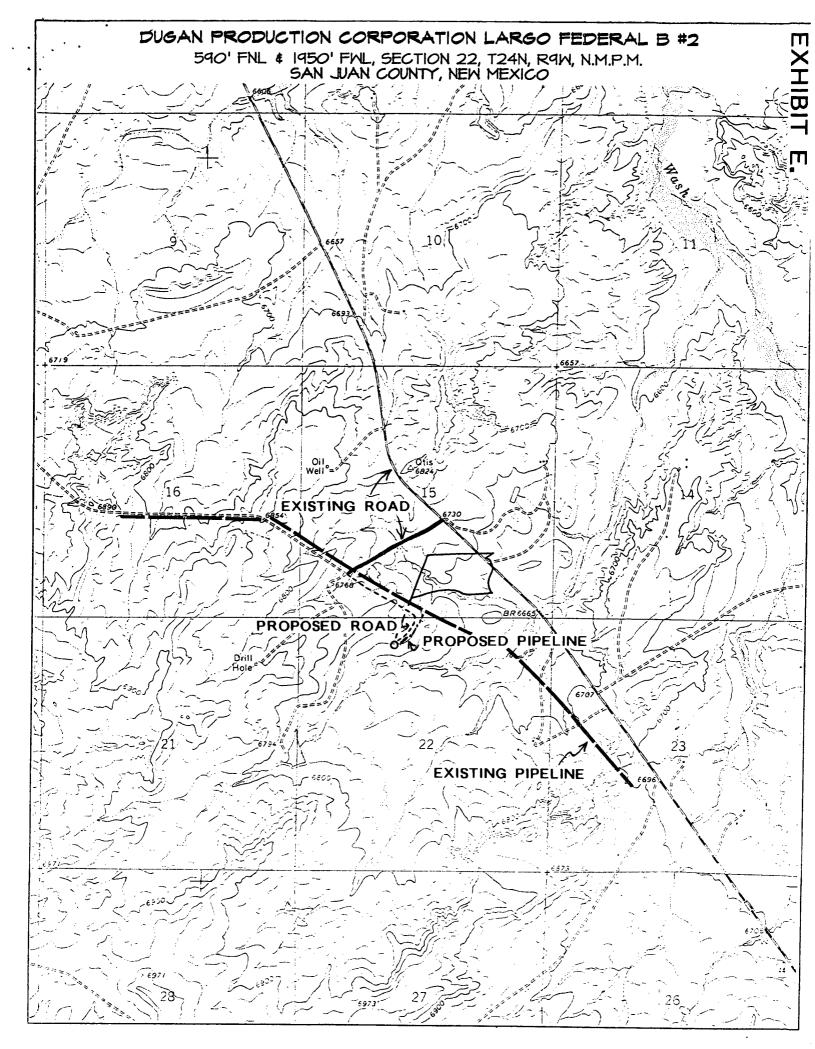
Typical Location For a Gallup Well

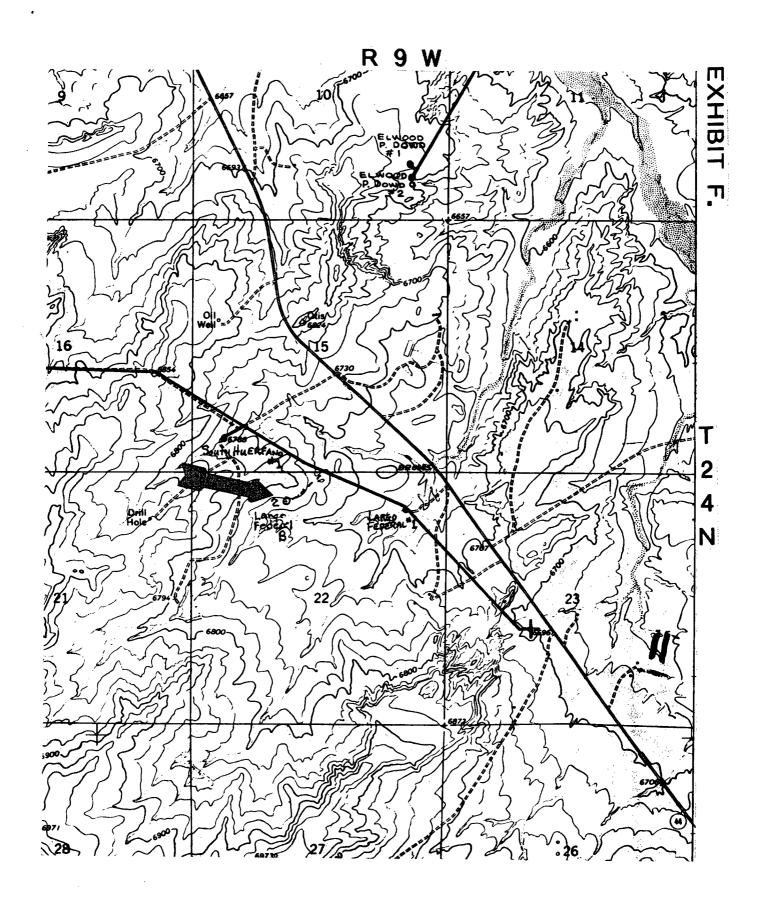






Working Pressure for all equipment is 2,000 psi or greater





## EXHIBIT V.

