#### BASIN FUELS, INC.

### Formation Information and Drilling Practice

WELL:

Jay Jay No. 1

LOCATION:

2310' FSL & 330' FWL Sec 18-T20N-R5W McKinley Co., NM

LEASE NUMBER:

NM-5979

Geologic name of surface formation. 1)

Kirtland

Estimated tops of important geologic markers. 2)

La Ventata	875
Chacra	1233
Cliff House	1779
Menefee	1841
Point Lookout	2675

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

2675' - oil & gas

4) Proposed casing program.

> 9 5/8", 36#, K-55, new casing to be set at 100'. Cement will Surface:

be with 100 sk. Class "B" + 2% gel + 0.5% CFR-2.

5  $\frac{1}{2}$ ", 15.5, K-55, New casing to be set at 2750'. Cement will be 325 sk. Class "B" + 2% gel + 0.5% CFR-2. Production:

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	Туре	Viscosity	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.

- 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

8) Coring:

NONE

Drill Stem Testing:

NONE

9) Abnormal temperatures, pressures, or hazardous conditions.

None expected.

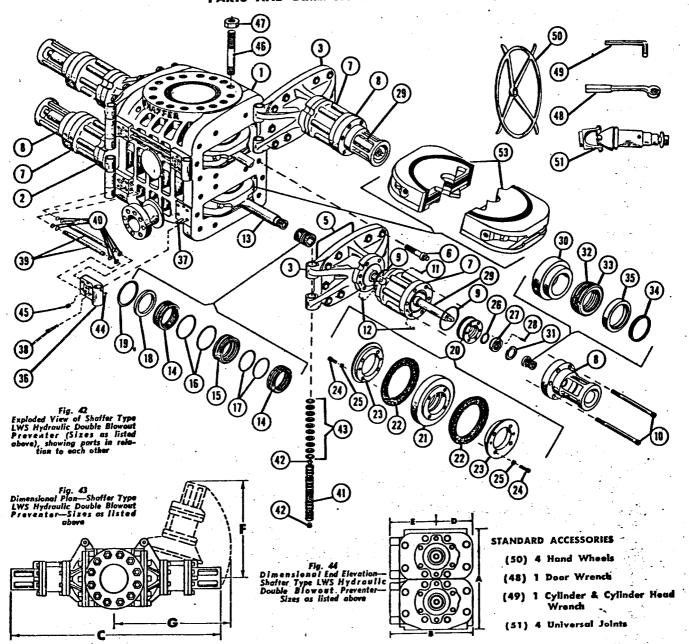
10) Starting date.

Anticipated starting date is May 22, 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.—135/8", 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

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			F		4	W *4.		\		3	C	D	1	7	G					
					Approx	Weight be	Height							1	Deer	Door			U.S. Gala.	U.S. Gals Finid
	Max. Service	Total		Mar	Studde	i Florge	Sia	fle .	Det	ble			Cepter	Center	Open To	Open			Fluid To	Te
Sise	Press. Rating	Press.	Vertical Bers		Single	Double	Studded Plants	Belted Flange	Studded Flange	Bolted Flange	Width	Length	To Front	To Rear	Change Rams	Change Rams	Closing Ratio	Opening Ratio	Close Rams	Open Rams
<u>r</u>	3,000	6.000	2	I	••••	3,900		••••	2914	4194° 4514° 5014°	25%	7915	1135	14% 14%	22'	46"	5.6 to 1 5.6 to 1	1.89 to 1 1.89 to 1	2.75 2.75	2.3 2.3
10	5,000 5,000 3,000	10.000 10,000 6,000	117	846 1034 1034	5,600	3.900 7,000 6.300	243%"	3436"	1 23"	1003 1733	25% 25% 28% 31% 32% 56%	7916 7916 8916 9216 9236	1137 1137 1137 1137 1437	1836	27"	46°	5.5 to 1 5.56 to 1	1.5 to 1 1.89 to 1	3.25 3.55	2.7 2.9 2.9 3.2
13.75	3,000 3,000	10,000	1336	103%	6,800	9,700 8,500	3656"	36%	341/4" 341/4"	47% 49% 81	3314° 56%	0236° 10635°	1634	1834 1834 2034	41"	54° 60°	5.56 to 1 5.56 to 1	1.5 to 1 1.89 to 1	2.55 2.6	32

#### BASIN FUELS, INC.

Development Plan for Surface Use

WELL:

Jay Jay No. 1

LOCATION:

2310' FSL & 330' FWL Sec. 18-T20N-R5W McKinley Co., NM

LEASE NUMBER:

NM 5979

## 1) Existing roads. (Shown in green)

The attached topographic map shows all existing roads within one mile 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 ½ 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.

## Location of existing production facilities.

All production facilities for this well will be located on the site.

All tank batteries, production facilities or production, gathering and service lines within one mile of the proposed location are shown on the attached topographic map.

### 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.

### Source of construction material.

Any construction material required for road or location will be excess material accumulated during building of such sites.

## 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.

All 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 anumal life in the area.

Surface at this location belongs to the Bureau of Land Management.

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.

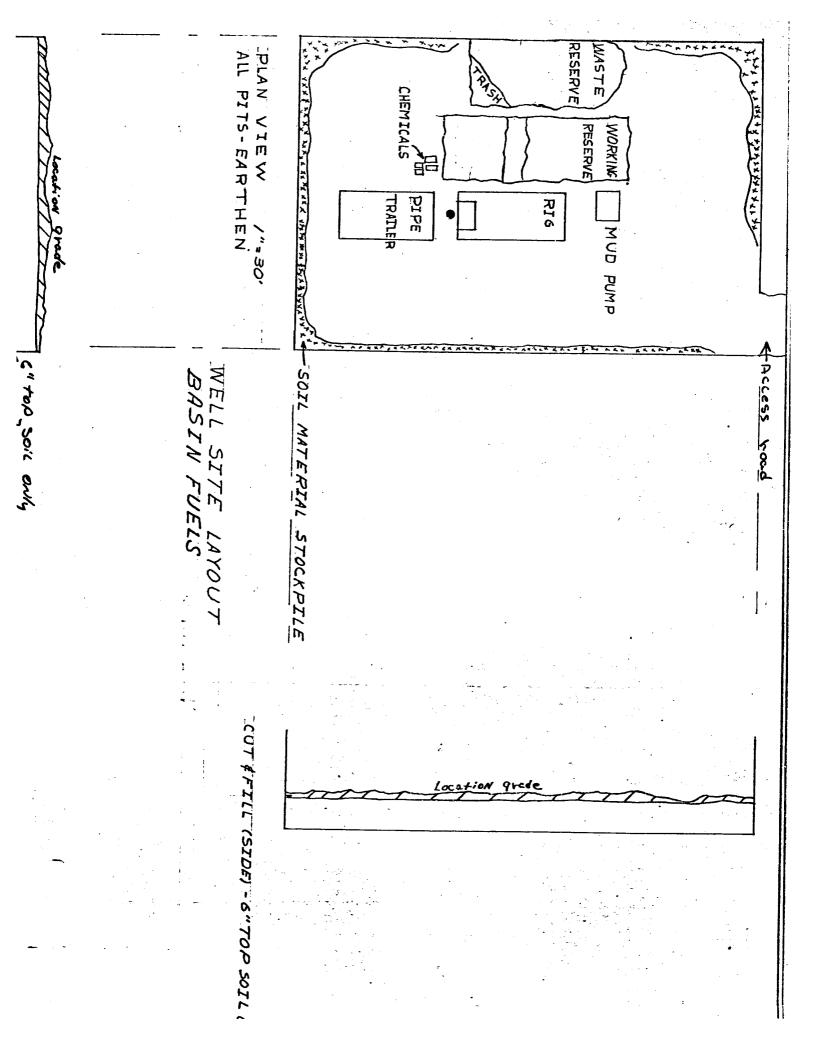
12)

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 Basin Fuels, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

5-6-5

John Alexander



# STAR LAKE QUADRANGI NEW MEXICO 7.5 MINUTE SERIES (TOPOGRAF

