Form 9-331 C (May 1963) Kerin Devalur

SUBMIT IN TRIPLICATE\* FORM

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY				NM - 8904 6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK							
b. TYPE OF WELL	AS OTHER	DEEPEN	s	PLUG BA		7. UNIT AGREEMENT 1	ME
DAVIS OIL CO	MPANY					Beard Federa 9. WELL NO. # 1	
410 Seventeel Location of Well (R At surface SE½ - SW½ Sec At proposed prod. zon	ction 5, Townsh		, Ran	ge 8West		Wildcat  11. SEC., T., R., M., OR AND SURVEY OR A	BLK.
14. DISTANCE IN MILES						5-T22N-R8W 12. COUNTY OR PARISE	13. STATE
8 Miles N-NW 15 DISTANCE FROM PROPULOCATION TO NEAREST PROPERTY OR LEASE L (Also to dearest drig 18 DISTANCE FROM PROP	INE, FT. g. unit ilne, if any) 100	00' N	2	0. OF ACRES IN LEASE	то т	San Juan OF ACRES ASSIGNED HIS WELL 160 RY OR CABLE TOOLS	New Mexico
TO NEAREST WELL, DOOR APPLIED FOR, ON THE	RILLING, COMPLETED, IS LEASE, FT. 449	92' NE		700		Rotary	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					Upon Governm	
23.		PROPOSED CASU	NG ANI	CEMENTING PROGR.	АМ		
SIZE OF HOLE	8 5/8" O.D.	weight per f 24# K-55	00Т	STC New 100'	Cemen	quantity of CEME t to Surface	NT
7 7/8"	5½" O.D.	15.5# K-5!	5	LTC New 1700'	150 s		
( SEE TEN PO	INT PROGRAM )						
			Q	JAN 3 1 1979  JAN 3 1 1979  OIL CON. CON.  OIL DIST. 3			
ABOVE SPACE DESCRIBE one. If proposal is to preventer program, if any 24.	drill or deepen direction						
SIGNED B				illing Superint	endant	bate Janua	ry 25, 1979
This space for Feder	ral or State office use)			<u> </u>			
PERMIT NO.				APPROVAL DATE			· ·
APPROVED BY	AL. B. ANY:	TI	'LE			DATE	

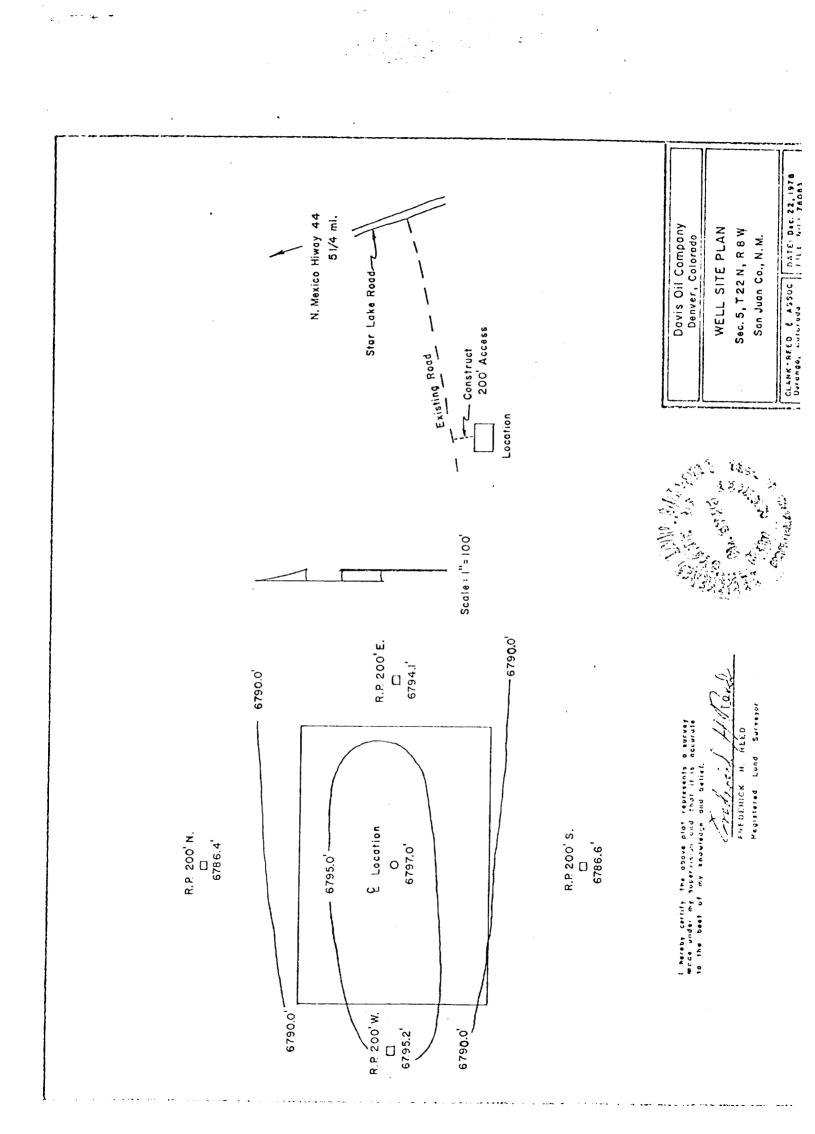
NMOCC - REVISED APD

- Box - Co D pland Coping (Southern)

# 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 ho	mdaries of t	he Section.		
.petator D	Luase	Leose Peard-Foderal			wen no.		
Unit Letter	Section 5	Township 22 N	Range 8	w	County San	Juan	
Actual Footage Lo	ecution of Well:						
1000	feet from the	South line		feet	from the West		line
Ground Level Elev	1 ~ 1		Cha				cated Acreage:  / 6 O Acres
6797	Chac	ated to the subject			hachure marks		
2. If more t							f (both as to working
	communitization,	unitization, force-po	ooling. etc?				owners been consoli-
Yes	No II a	answer is "yes," typ	e of consolidation	on			
this form No allowa	if necessary.) able will be assign	ned to the well until	all interests hav	e been c	onsolidated (by	communit	(Use reverse side of tization, unitization, oved by the Commis-
:	!		I			CER	RTIFICATION
	1				tain	ed herein is	that the information con- true and complete to the riedge and belief.
	+				Name	1.1.	& fruit
	1		Î 1		Positi Ch	ief G	eologist / Co.
	. f				_DA	vis O:	/ Co.
			1		Date /2	128/7	s the same
	Fro	oposed Location	RECE	VED	shov note unde is t knov	s of octify	Tis was plotted from field  Extract Track The or  Piston, and that the same  It is the same
f 14tc	) / · · /		JAN:	1 1979 DN. 0000 DIST. 3	Date S	urveyed	Dec. 22, 1978
	1900				01/476	Cand protie	export H. Reed
	7		- AAAA	parameter and	Certifi	cate No.	3795



#### TEN POINT PROGRAM

1) GEOLOGIC OBJECTIVE: Mesaverde Formation.

& 3) ESTIMATED TOPS: (Water, Oil, Gas or Mineral bearing formations)

Nacimiento Surface Tite shale Ojo Alamo 1931 Sandstone, fresh water, no oil or gas. Kirtland 413' Tite shale Picture Cliffs 871**'** Sandstone and some thin coals, brackish water, no oil or gas 1243' Chacra Interbedded sandstone and shale, possible gas productive. Menefee Interbedded sandstone and shale, possible gas productive. 1567' Cliff House 1641' Sandstone and thin interbedded coal, possible gas productive ( Top of Mesaverde) Total Depth 1700'

4) CASING PROGRAM: 100', 8 5/8" OD, 24#, K-55, STC, New, cement to surface. 1700', 5 ½" OD, 15.5#, K-55, LTC, New, 150 sxs. Est.

5) PRESSURE CONTROL EQUIPMENT: (See attached schematic diagram) BOP's and choke manifold will be installed and pressure tested before drilling out under surface casing and then will be checked daily as to mechanical operating condition.

6) MUD PROGRAM: 0-100' Spud Mud

100-1400' Treated Water

1400'-TD LSND, 9.0-9.5 ppg (Mud wt. as required to control formation pressure), Vis 35-40, Less 10cc WL, pH 10-10.5. Sufficient mud materials to maintain mud properties, control lost circulation and to contain blowout will be available at

wellsite.

## 7) AUXILLIARY EQUIPMENT:

- 1. Kelly cock
- 2. Drill Pipe Float (Except for lost circulation drilling conditions)
- 3. Monitoring of Mud System will be visual unless otherwise specified.
- 4. A sub on the floor with a full opening valve to be stabbed into drill pipe when Kelly is not in the string.
- 8) LOGGING: Dual Induction Laterolog from base of surface casing to total depth.

  Compensated Neutron Formation Density from base of surface casing to total depth.

TESTING: No Testing.

CORING: No coring.

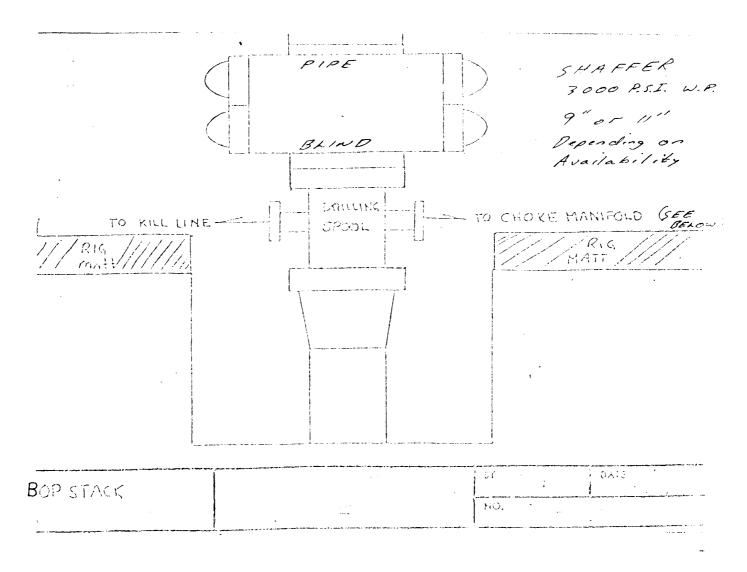
STIMULATION: Mesaverde Formation - Approx. 50,000 gals. gelled Kcl water frac. with 30,000# 10/20 sand. Actual volume of treatment will be dependent upon thickness of pay and evaluation of zone of interest.

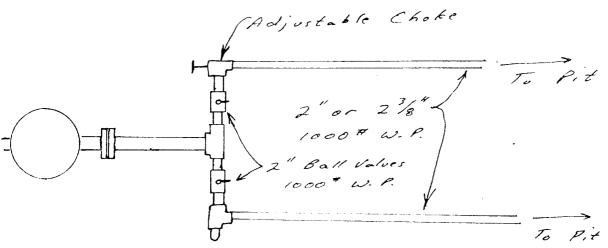
9) ABNORMAL PRESSURE: Abnormal pressures, temperatures of other hazards are not anticipated during the drilling operations of this well.

ESTIMATED BOTTOMHOLE PRESSURE: 600 psi

10) ANTICIPATED STARTING DATE: Within 30 to 45 days from date of Government approval.

DURATION OF OPERATION: San Juan Basin 20-25 days





CHOKE MANIFOLO

# SANDEL water.wr

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### DAVIS OIL COMPANY MULTIPOINT SURFACE USE PLAN ( Per NTL 6 )

LEASE NAME Beard Federal WELL NUMBER 1, SESW SEC. 5 TZZNR 8 W FEDERAL LEASE NUMBER NM-8904 COUNTY San Juan, STATE New Mexico

### 1. EXISTING ROADS:

A. PROPOSED WELL SITE: See Surveyors Plat and maps "A" and/or "B" attached.

B. DIRECTIONS TO LOCATION:

From Bloom field, New, Mexico drive southeast 38 miles on Hiway 44 then south on the Star Late Road 5.3 miles, then southwest on a trail 1-8 miles to the proposed new road then south oil mile to location.

SEE MAP "A"

- C. ACCESS ROADS TO LOCATION: (See maps "A" and/or "B") Existing roads, No upgrading needed: Purple. Existing roads and/or trails requiring upgrading: Orange. Proposed New Road Construction: Red.
- D. EXISTING ROADS WITHIN 3 MILES ( IF EXPLORATORY WELL:) See maps "A" and/or "B" attached. Present surface and condition of existing roads: Star Lake Road - 1.8 miles crowned-ditched dirt surface Trail - to within O.I mile of location - possibly needs upgrading - to be determined at pre-site meeting
- E. EXISTING ROADS WITHIN 1 MILE ( IF DEVELOPMENT WELL: ) See maps "A" and/or "B" attached.
- F. PLANS FOR ROAD IMPROVEMENT AND/OR MAINTENANCE: All new construction and upgraded trails will be built with an 18' wide crowned running surface with bar-ditches on both sides. \_\_\_\_\_ culverts \_\_\_\_ inches diameter and \_\_\_\_\_ feet in length will be installed as indicated on the maps. Existing roads will be maintained to as good or better condition as found. Ipgrading to commence if well is proved to be producable

# 2. PLANNED ACCESS ROADS:

- See maps "A" and/or "B" attached:

  (1) Width: 16' to 18' wide crowned running surface.

  (2) Maximum grades: Z percent.

  (3) Turnouts: As needed (See maps.)

  (4) Drainage: Bar-ditches both sides culverts as needed (See maps) (5) Location and size of culverts:

  To be determined at pre-site meeting
  - (6) Surfacing material and source: To be determined at presite meeting
  - (7) Gates, cattleguards, fence cuts: ( See maps )
  - (8) Roads have been center-line flagged if practical. If serious doubts about alignment of road were present, center line will be flagged in the presence of U.S.G.S. and B.L.M. during predrill inspection.

- 3. LOCATION OF EXISTING WELLS: SEE MAPS "A" AND/OR "B".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
  - A. See maps "A" and/or "B" and Plat "C"
  - B. See maps "A" and/or "B" and Plat "C". Reserve pit will be fenced on 3 sides prior to beginning of drilling operations. The 4th side will be fenced when the rig moves off. Pit will be over-head flagged if oil residue is left on surface. Good oilfield methods will be employed in all construction.
  - C. Plans for Restoration: Topsoil will be stockpiled for reuse and disturbed areas no longer needed will be restored as requested by the Surface Management Agency and U.S.G.S.

# 5. LOCATION AND TYPE OF WATER SUPPLY:

- A. See maps "A" and/or "B" attached.
- Trucking source to be determined at time of pre-site meeting B. Method of transporting water:
- C. Water well to be drilled on lease (yes) (no)

## 6. SOURCE OF CONSTRUCTION MATERIALS:

- A. See maps "A" and/or "B" attached.
- B. Surface ownership (Federal) (Indian) (State) (Fee) C. Type, source and point of use of construction materials:

None needed at present time

D. Access roads needed to source of construction meterials:

NIA

## 7. METHODS FOR HANDLING WASTE DISPOSAL:

- (1) Cuttings will be buried in reserve pit.
- (2) Drilling Fluid: Will be buried in reserve pit when pit is dry.
- (3) Produced Fluid: Will be contained in reserve pit and/or will be burned in pit and buried when pit is dry.
- (4) Sewage: Sanitation holes will be dug approximately 24" diameter by 20'-30' deep for each trailer and for rig " outhouses ".
- (5) Garbage and other waste: Burnable garbage will be contained in trash pit and burned. Pit will be fenced with chicken wire. Unburnable trash will be buried upon completion of operations.
- (6) Trash will be picked up if scattered and contained in trash pit as soon as practical after the rig is moved off. Trash pit will then be burned and fully enclosed until such time that it can be buried. Reserve pit will be fenced on all four sides and left until dry at which time it will be buried.

# 8. ANCILLARY FACILITIES: See maps "A" and/or "B"

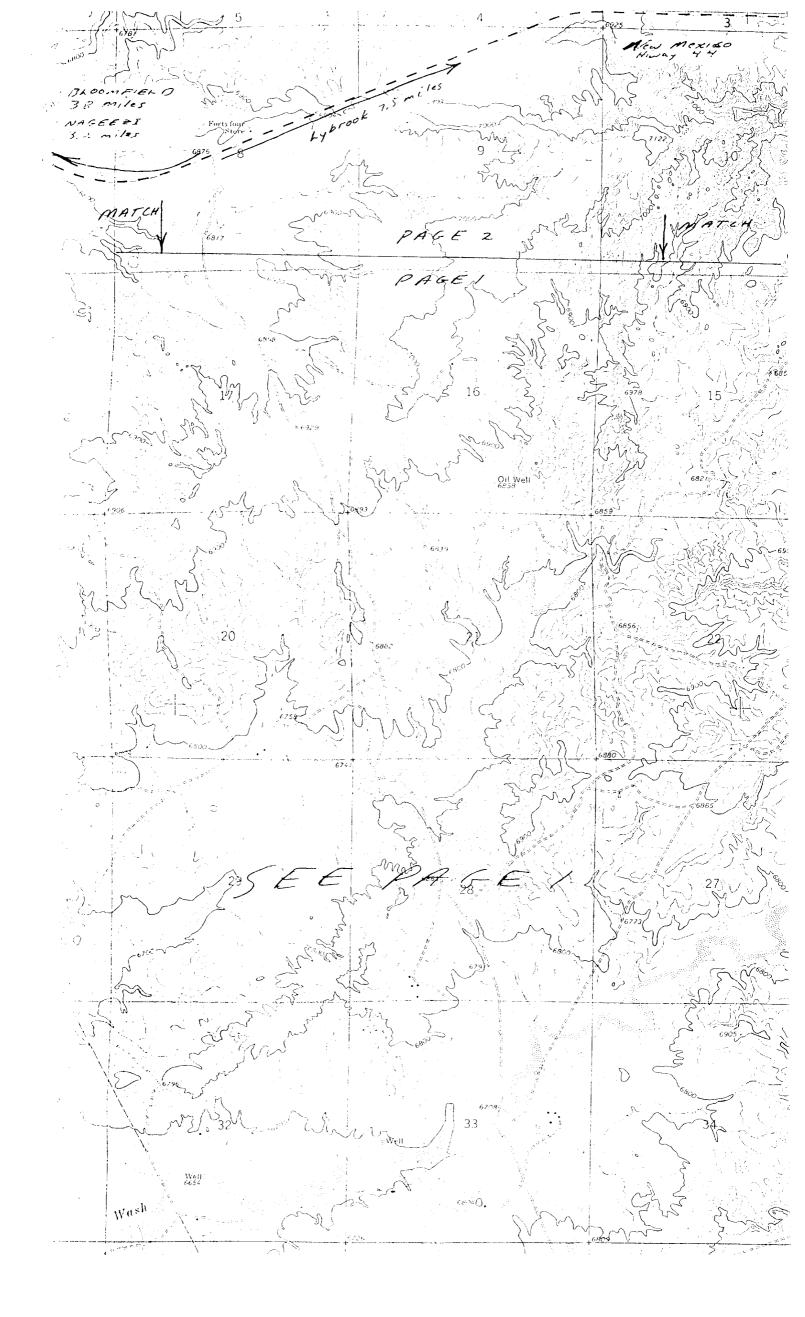
9. WELL SITE LAYOUT: See Plat "D" and/or Plat "E". Pits (are) (are not) to be lined. If lined material will be \_\_\_\_

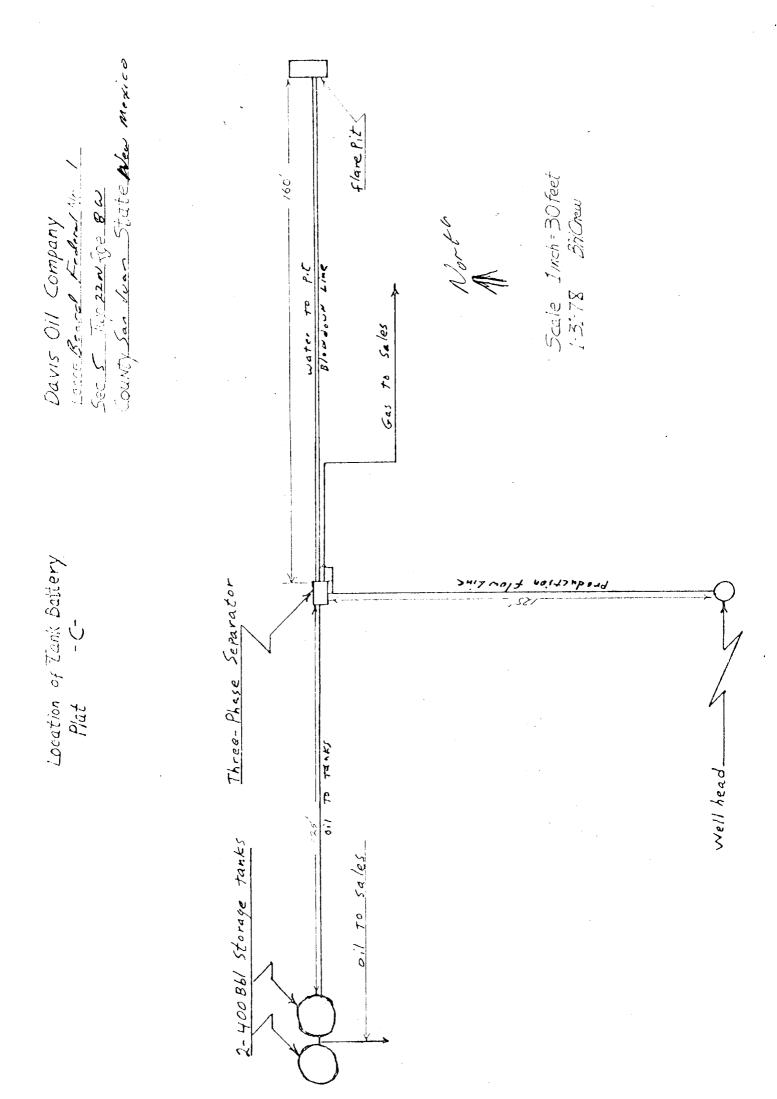
## 10. PLANS FOR RESTORATION OF SURFACE:

- Backfilling, leveling, and contouring will be commenced as soon as practical after reserve pit is dry.
- Revegetation and rehabilitation will be commenced as soon as practical after backfilling and contouring are completed. Specific season and seeding will be determined by the Surface Management Agency.
- (3) Pits will be fenced on three sides prior to beginning drilling operation. Fourth side will be fenced when rig is removed and so maintained until backfilling is commenced. (Five strands of barbed wire will be used.)
- (4) Pits will be overhead flagged or covered with wire fencing material if oil is left on surface.
- (5) Rehabilitation will normally commence within 1-2 years of completion of drilling operations and will be determined by the length of time required for reserve pit to dry adequately. The rehabilitation will normally be completed within 30-60 days (exclusive of seeding) from time work begins. Seeding will be done the fall following completion of rehabilitation work providing adequate men and equipment are available at this time.

11. OTHER INFORMATION:				
	, flora and fauna			
A. Topograph	y: . ation and roa	d located	on ridge top	0
with 9	sentle slopes	of 09.49	To, surrounded	
by de	-ainages			
B. Vegetatio	n:			
Majo	r Existing Specie	es:	Per-Cent	
	3-056			· <del></del>
	Fractes			
<del></del>			·	
<u></u>				
	<del></del>			
-				
Seed	mix to be determ	mined by Surface	Management Agency.	
C. Fauna:				
Туре	s Observed:		, ,	
	Vone observe	d - types	to be ascept	arred at
	time of pre-	rite meetin	<u>,e</u>	<del></del>
D. Soils and	Geology:			
	clay and san	de clas		
	, , , , , , , , , , , , , , , , , , , ,	- / /		
E. Water wel	1 desired by B.L.	.M.?		
Condition	s of Acceptance:			
(a) Cumface Ou	morabini			
(2) Surface Ow	mership:	ACCESS	DRILL SITE	MINERALS
Fe	deral	IXI	Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø	IZI
	ate		$\overline{T}$	
	ivate	77	<del>77</del>	$\overline{\mathcal{T}}$
(3) Proximity	of surface water	, dwellings, Arc	haeological, Histori	ical, or
Cultural s	ites.			
6	Inknown - t	o be dete	rained at ti-	me of
	re-site m	eeting		
P	, , , , , , , , , , , , , , , , , , , ,			
12. LESSEES OR OPERATIONS	REPRESENTATIVES	:		
Paul F. C	Banko		307 362-	
Bert H. Chew			307+ 362-283	39
Davis Oil Comp	any		307+ 382-286	52
1424 Tenth Str				
Rock Springs,	Wyoming 82901			
13. CERTIFICATION:				
I hereby certi	fy that I, or per	rsons under my d	lirect supervisi <mark>on,</mark> h	nave
inspected the	proposed drillsi	te and access ro	oute; that I am famil	liar
with the condi	tions which prese	ently exist; tha	it the statements made	de in
this plan are,	to the best of r	ny knowledge, tr	rue and correct; and	, that
the work assoc	lated with the of	perations propos	sed herein will be pe	contractors
in conformity	with this plan a	and the terms and	s contractors and sub I conditions under wh	nich it
is approved.	with this bran a	in the cerms alle	. John Land Gilder Wi	
rs approved.	•	•		
	_	$\bigcirc$	. 1 - 12 -	
1-24-79	<u>/</u>	Dans	Name and Title  Representation	
Date		~ ·	Name and Title	_
		Field	Kepresantas	twe

PAGE Davis =WL (SE MAP Existing FOERAL





Davis Oil Company Plat D Lease Name: Scard Federalwell No. 1 SE-50 Section 5 ,7222, RBW Courty, New. Contours: Approximately one ft.