Form 3160-3 (November 1983)

SUBMIT IN TRIPLICATE. HNITED STATES

(Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136

formerly 9-331C)		TED SINIES	Dien.	,,,,,,	Expires August	31, 1985
	DEPARTMEN	T OF THE INTE	RIOR		5. LEASE DESIGNATION	AND BERIAL NO.
	BUREAU O	F LAND MANAGEME	NT		SF-078139	
APPLICATIO	N FOR PERMIT	TO DRILL, DEEP	PEN, OR PLUG E	BACK	6. IF INDIAN, ALLOTTE	B OR TRIBE NAME
a. TYPE OF WORK		· · · · · · · · · · · · · · · · · · ·				
	RILL 🖸	DEEPEN 🗌	PLUG BA	CK 🗌	7. UNIT AGREEMENT N	AME
b. TYPE OF WELL OIL (DAS [7]	,	SINGLE (MULTIE			
WELI. \	WELL OTHER	Water Disposal	ZONE ZONE	K.X	8. FARM OR LEASE NA	MB 142.34
. NAME OF OPERATOR	778				E. E. Elliot	t SWD '
Amoco Product	tion Company	ATTN: J.L. Hampt	on		9. WELL NO.	
					#1	
P. O. Box 80	O Denver, Co	lorado 80201 d in accordance with any	State manufacture ()		10 FIELD AND POOL, O	ENTRADA
At surface	ini	u in accordance with any	State requirements.")		Unknown	ENTRADA
12 1 0'	FNL, 4580' FXL				11. SEC., T., R., M., OR AND SURVEY OR A	BLK. REA
At proposed prod. zo	ne				Sec.26, T30N	, R9W
4. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POST OFFI	CE.		12. COUNTY OR PARISH	13. STATE
13.28 mi	les to Aztec, N	ew Mexico			San Juan	NM
5. DISTANCE FROM PROP LOCATION TO NEARES	OSED*		O. OF ACRES IN LEASE		F ACRES ASSIGNED	
		20'	/-	тот	HIS WELL	
5. DISTANCE FROM PRO	POSED LOCATION	19. 1	N/A PROPOSED DEPTH	20. ROTA	A RY OR CABLE TOOLS	
TO NEAREST WELL, I OR APPLIED FOR, ON TE	DRILLING, COMPLETED, HIS LEASE, FT.					
1. ELEVATIONS (Show wh	nether DF, RT, GR, etc.)	1.884	10' TD	Rotar	Y 22. APPROX. DATE WO	ORK WILL STARTS
5.0	5 6' GR				As soon as a	pproved
3.		PROPOSED CASING AN	D CEMENTING PROGR.	AM		
		· · · · · · · · · · · · · · · · · · ·		 		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEME	NT C
26"	20"	94#	500 1 250		t to surface	640 5X
17 1/2"	13 3/8"	54.5,61.,68.0	2 800 1 300		t to surface	1700 sx
12 1/4"	9 5/8"	36#, 40#	5400'		t to liner top	
8]/2"	7 "	23#, 25#	' 8840' (TD)	' Cemen	it 500' into li	ner 6005x

See attached summary for detailed mud and casing program "Drilling and Completion Program"

Notice of Staking was submitted 7/25/89

Lease Description:

T30N, R9W

 $\overline{NE/4}$, W/2, SE/4



OIL CON. DIV.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is conditional or deepen directionally, give proposed in any.	to deepen or plug back, give data on present pro ertinent data on subsurface locations and measur	ductive zone and proposed new productive ed and true vertical depths. Give blowout
SIGNED & Hampton LB	тить Sr. Staff Admin. Supv.	DATE 9/18/89
(This space for Federal or State office use)		APPROVED
PERMIT NO.	APPROVAL DATE	AS AMENDED
APPROVED BY	TITLE	MAY (2) 1980
CONDITIONS OF APPROVAL, IF ANY: SWD-376	1	Total
HOD FOR SWD HAY	COOMIN DOOD	PE AREA MANAGER
*See	Instructions On Reverse Side	,



Submit to Appropriate District Office state Lease - 4 copies For Lease - 3 copies

DISTRICT II

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

P.O. Drawer DD, Artesia, NM 88210 DISTRICT III

P.O. Bux 1980, Hobbs, NM 88240

660

990

1320 1650

1960 2310

2640

2000

1500

1000

500

0

WELL LOCATION AND ACREAGE DEDICATION PLAT PROPERTY OF THE PEXICO 1000 Rio Brazos Rd., Aziec, NM 87410 All Distances must be from the outer boundaries of the section Operator Lease Well No. AMOCO PRODUCTION COMPANY E. E. ELLIOTT SWD # 1 Unit Letter Section Township Range County 26 30 NORTH 9 WEST SAN JUAN NMPM Actual Footage Location of Well: 1270 feet from the NORTH line and WEST line 580 feet from the Ground level Elev. **Producing Formation** Pool Dedicated Acreage: 5956 Morrison Acres 1. Outline the acreage 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 interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? Yes If answer is "yes" type of consolidation If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. **OPERATOR CERTIFICATION** I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. *580*'-26 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief. MAY 07 1990 Date Surveyed
March 5, 1990 OIL CON! DIV. Signature & Se Krybbr D. Professional VEYOR 016 4 Gar Cerufi MO 7016 POFESSIONAL

Amoco Production Company / DRILLING AND COMPLETION PROGRAM

San Juan O.C.

AND COMPLETION PROGRAM

WELL NO.

1

DATE

2/06/90

FIELD

New Mexico 30-8

LOCATION

Sec. 27-T30N-R9W

OBJECT: Develop disposal well to accomodate produced water from surrounding Coal Degas wells. METHOD OF DRILLING APPROXIMATE DEPTHS OF GEOLOGICAL MARKERS Type Tools Depth Interval Rotary O-TD Estimated Elevation 5950' GI Marker Depth Elevation Ojo Alamo 1500 4450 SPECIAL SURVEYS Kirtland 1630 4320 Type Depth Interval, Etc. DIL/SP/GR 20"-TD Fruitland 2375 3575 CNL/FDC/GR/Ca1 20"-TD Picture Cliff 2700 3250 Long Space Sonic w/full wave form recorder 20"-TD Lewis Shale 2870 3080 Microlog Base of Liner-TD Mesaverde 4270 1680 Mancos 5361 589 Gallup 6044 -94 Dakota 7062 -1112 Morrison 7311 ~1361 Entrada 8159 -2209 Total Depth 8509 ~2559 Remarks: *Possible Pay #Probable Completion Interval None DRILL CUTTING SAMPLES DRILLING TIME Depth Interval Frequency Frequency Depth Interval 10' |Geolograph 0-TD SPECIAL TESTS Type Depth Interval, Etc. | Remarks: None Mudloggers Remarks: Run injectivity and step rate tests on Morrison, Bluffs and Entrada Formations MUD PROGRAM Approximate Interval Type Mud Weight #/GAL. Viscosity Sec. API W.I. CC/30M Other Specifications 0 - 250spud 250-30001 1snd 8.9-11.0 Sufficient to clean hole and maintain hole conditions for logs. 3000 - 5400 Air/Air Mist Maintain air rates to clean hole 5400'-7000 Air/Air Mist Maintain air rates to clean hole 7000-TD 1snd 8.6-8.9 sufficient to clean hole and maintain hole conditions for logs. Remarks: CASING PROGRAM Casing String Est. Depth Casing Size* Hole Size* Sx. Cement Type Cement Description of Landing Point, Etc. Conductor 250 20 26 to sfc 3030 Surface 3000 13 3/8 17 1/2 To sfc Serie Intermediate 5400 9 5/8 12 1/4 To liner top s'es'e Oil String TD 711 8 1/2 500' into liner ** Liner Casing not to be desinged by Operations Center Drilling Engineer Remarks: አአአ Cover all potential injection zones with cement. *Normal, the tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by contract CORING PROGRAM None COMPLETION PROGRAM To be designed by Division Coal Degas group GENERAL REMARKS

FORM 46

Prepared By

H. Terbest_

LEASE

COUNTY

E. E. Elliot SWD

San Juan

Elliot.swd disk 60

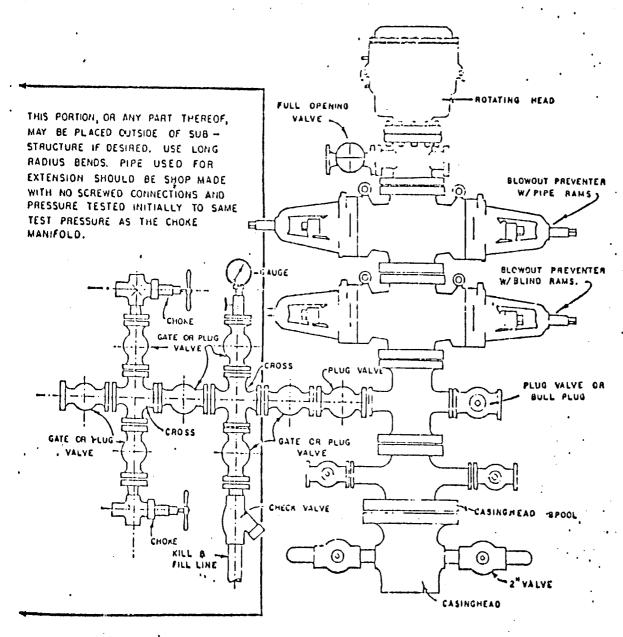
J. R. Davidson/B. S. Bell

For Producing Department

Approved:

For Exploration Department

Approved:



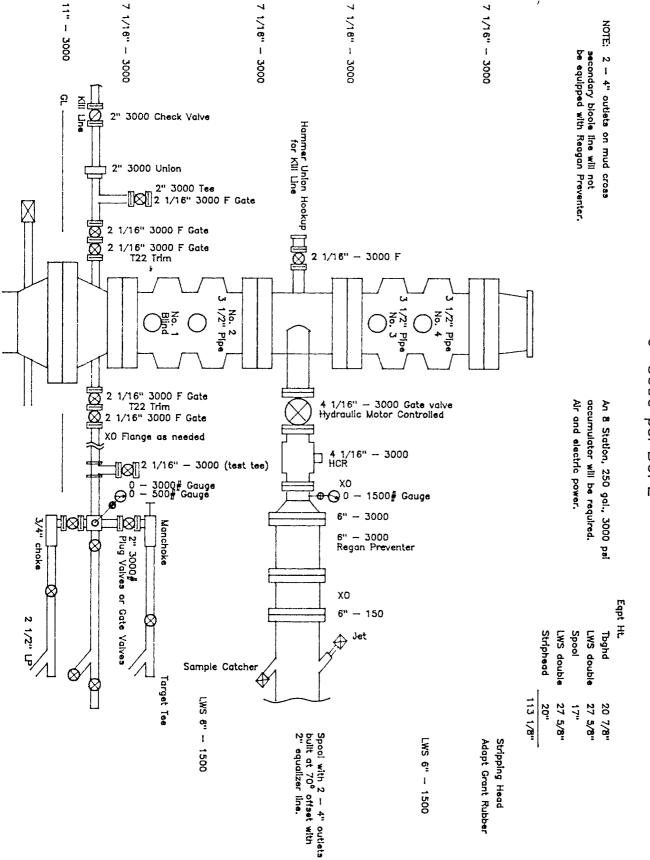
BLOWOUT PREVENTER HOOKUP

AMOCO PRODUCTION COMPANY

APD Series # 900

EXHIBIT D-4
OCTOBER 16,196

Operation of BOP by closing both pipe and blind rams will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.



Drill Out BOPE 6" 3000 psi BOPE

Per your request Amoco Production Company is submitting a revision to our Blow Out Preventer Equipment previously provided. We intend to utilize 3000psi equipment that satisfies the Onshore Order #2. The following equipment will comprise the 3000psi systems:

- 1. Annular Preventer.
- 2. Double Ram (Blind and Pipe).
- 3. Drilling Spool with 2 side outlets of 3" minimum diameter.
- 4. Kill Line.
- 5. At least 2 choke line valves (3" minimum).
- 6. 3 inch diameter choke line.
- 7. 2 Kill line valves (2-inch minimum).
- 8, 2 chokes.
- 9. Pressure gauge on chokes.
- 10. Upper Kelly Cock valve with handle available.
- 11. Safety valve and subs to fit all drill string connections.
- 12. All BORE connections will be flanged, welded, or clamped.
- 13. Fill up line above the uppermost preventor.

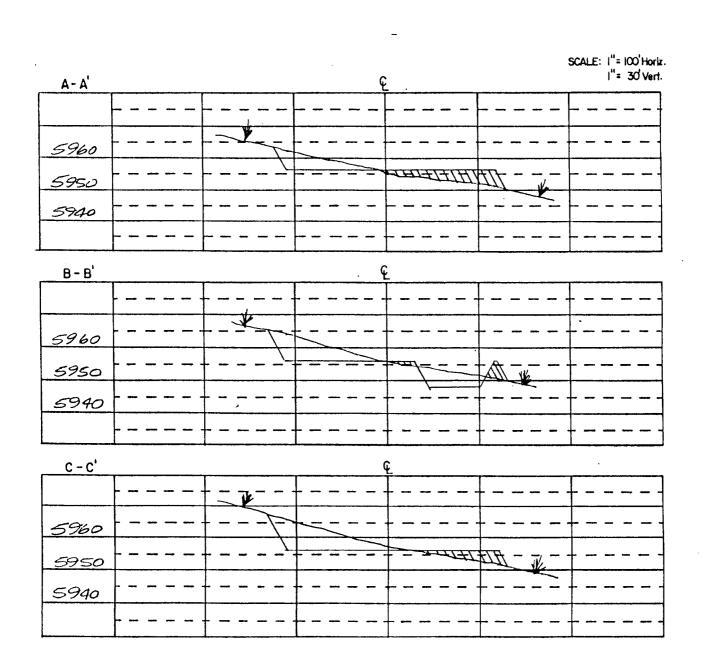
INJECTION WELL DATA SHEET

Amoco Prod	uction Co.	E. F. F11	intt		
Operator		lease			
<u> </u>	1220' FNL X 1520	' FEL 27	30 North	9 West	
Well No.	Footage Locati	on Section	30 North Township	Range	
<u>san Juan C</u>	ounty, New Mexico				
<u>Schemat</u>	ic		Tabular Data		
		Surface Casing		•	
		Surface Casing			
		Size <u>20"</u>	Cemented with	. 640 sx.	
4	20°csg@	TOC <u>surface</u>	feet determined by	circulation	
			26"		
\square	103/5	Intermediate Casing			
	13% csg@	Size <u>13 3/8"</u>	_ Cemented with	<u>1700 sx.</u>	
		TOC <u>surface</u>	feet determined by	<u>circulation</u>	
		Hole size	17 1/2"	_	
		Long String			
1	95/8" liner @	Size	_ Cemented with	600 sx.	
	2700' to 5500'	TOC	feet determined by	bond log	
		Hole size	8 3/4"		
		Tolal depth	8840′		
		Injection interval (will perforate selected intervals)			
	Packer @ 50' above perforations	7400	feet to <u>8400</u>	feet	

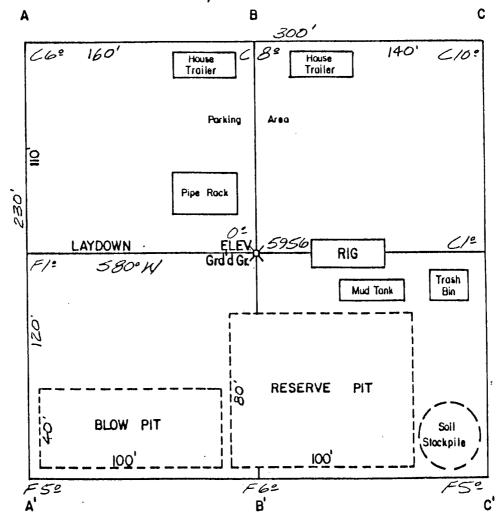
INJECTION WELL DATA SHEET

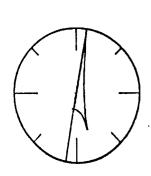
— <u>A</u>	moco Product perator	ion Co.			ott	
W	1 127 ell No. I	20' FNL X 1520 Footage Locati ty, New Mexico	' FEL on	Lease 27 Section	30 North Township	<u>9 West</u> Range
	<u>Schematic</u>	<u> </u>	·		Tabular Data	
			Surfa	ce Casing		
			Size	20"	Cemented wit	h , 640 sx.
A		20 csq@	TOC _	surface	feet determined b	y circulation
		300-			26"	
		13% csg@ 3000	Inter	mediate Ca	sing	
			Size	_13_3/8"	. Cemented wit	h <u>1700 sx</u> .
					feet determined b	
					17 1/2"	
				String		
		95/2" liner @	Size	7 "	Cemented wit	h 600 sv
		2700' to 5500'			feet determined b	
		·			8 3/4"	
					8840′	
				tion inter		
			(will	perforate	selected interva	•
		above Dertorations	Liner		feet to <u>840</u>	0feet
					Cemented wit	h 900 cv
					feet determined by	
<i>,</i>		7°csa@ 8818°			12 1/4"	
		8010			00′ - 5500′	
Tubi	ng size <u>3</u>	<u> 1/2"</u> lined				
				nacker	naterial) at <u>7350 (approx</u> .	_ secina
(or	(brand and r describe any	model) other casing-	tubina	r seal)	at 7330 tapprox.	reet
	r Data	3		, , , , , , , , , , , , , , , , , , , ,		
1.		injection for	mation	S Mana	ison, Bluff and E	
2.						
3.	Is this and	offich flow we	appii	table)	NA	
					$\angle \overline{X}\overline{X}$ Yes $\angle \overline{}$	
			as the		inally drilled? _	
4.				ed in any	other zone(s)? L or cement or bri	
5.	Give the dep gas zones (p	th to and nam ools) in this	e of a area.	ny overlyi	ng and/or underly	ing oil or
r.,	<u> </u>	land; 2660' P	icture	d Cliffs;	ng and/or underly 4290' Mesaverde;	6970' Dakota
Elio	t t				y 4	

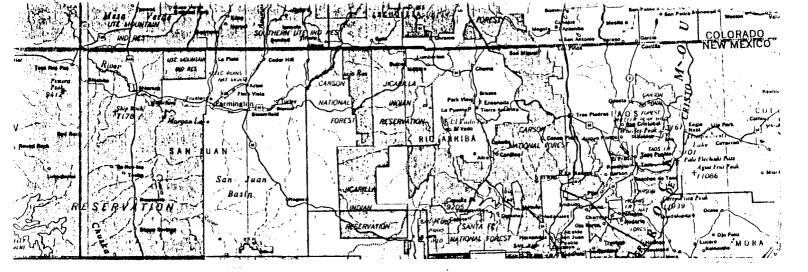
AMOCO PRODUCTION COMPANY
E. E. ELLIGTT SWD # 1
1270' F/NL 580' F/WL
SEC. 26, T30N, R9W, NMPM
SAN JUAN COUNTY, NEW MEXICO



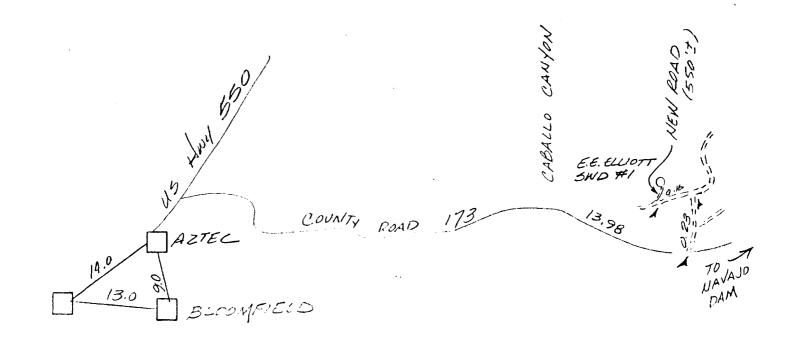
AMOCO PRODUCTION COMPANY
E. E. ELLIOTT SWD # 1
1270' F/NL 580' F/WL
SEC. 26, T30N, R9W, NMPM
SAN JUAN COUNTY, NEW MEXICO

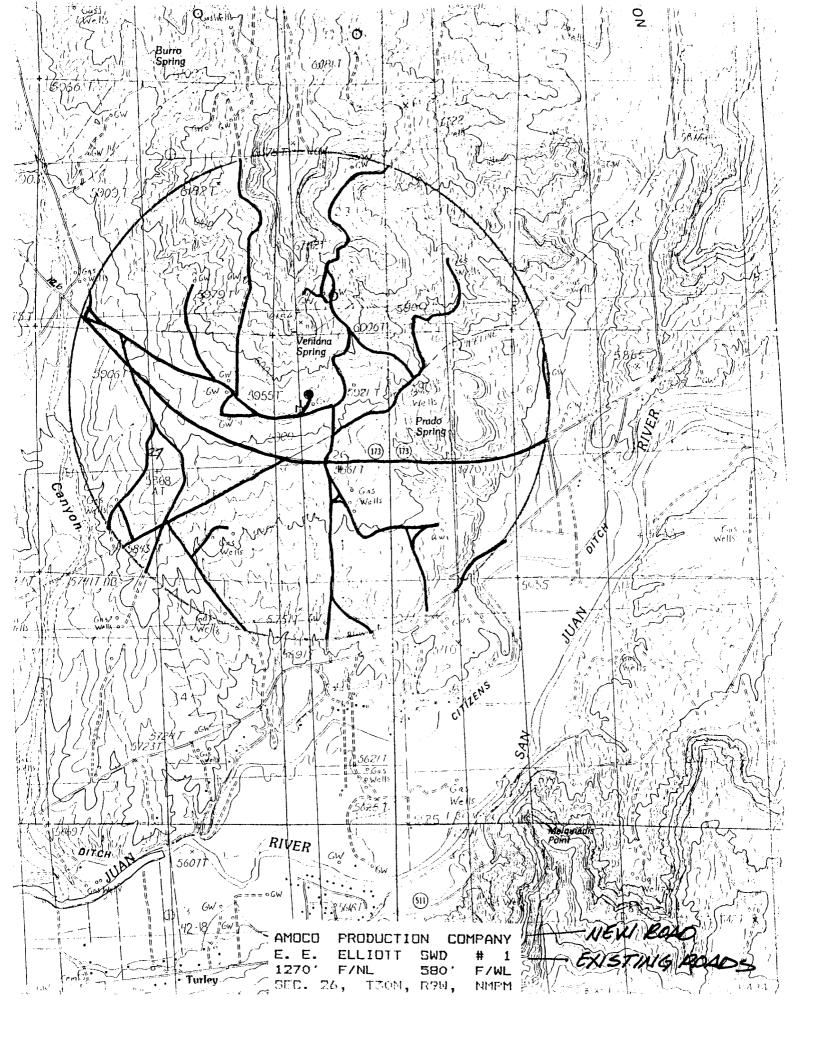






E. E. ELLIOTT SWD # 1 1270' F/NL 280, F/WL SEC. 26, **NMPM** T30N, R9W, RAIL POINT: MUD POINT: CEMENT POINT:





usposal Well New Mexico Multipoint Requirements

1. Existing Roads

٠,

- The proposed location is staked as shown on the Certified Plat.
- Route and distance from nearest town is identified on the form В. 3160-3, item #14.
- С. Access road(s) to location are identified on Exhibits A and B.

Not applicable unless exploratory well. D.

- All existing roads within a 1-mile radius of the well site are Ε. shown on Exhibit C.
- F. Improvement and/or maintenance of existing roads may be done as deemed necessary for Amoco's operations, or as required by the surface management agency.

2. Access Roads

Width ; Maximum grades 2% В.

С. Turnouts

D. Drainage will be used as required.

Size and location of culverts, if needed, will be determined at Ε. the onsite inspection or during construction.

F. Surfacing materials may be applied to the proposed road and/or location if conditions merit it.

G. Gates and/or cattle guards will be installed at fence crossings if deemed necessary by the land owner or the surface management

Η. The proposed new access road is center-line flagged if applicable.

3. Location of Existing Wells

All existing wells to the best of our knowledge are identified on Exhibit D (9 section plat).

4. Location of Existing and/or Proposed Facilities

- All existing facilities owned or controlled by Amoco are shown on Exhibits E and F.
- Β. If this proposed well is productive, Amoco will own or have control of these facilities on location: storage tanks, wellhead, production unit, and if applicable, a pump jack and/or compressor. Also there will be buried production lines from the wellhead to the production unit and/or the storage tanks.

 Amoco will submit a Sundry Notice when off-pad plans are finalized.
- Rehabilitation, whether the well is productive or not, will be made on all unused areas in accordance with surface owner or manager approval.

5. Location and Type of Water Supply

Water will be obtained from a privately permitted water source secured through a contract water hauling company. It will be hauled in vacuum trucks via the access road (Exhibit A.) The appropriate permits for this activity have been obtained by the water transporter.

Source of Construction Materials 6.

No off-site materials will be needed to build the proposed A. - D. location or access road.

7. Methods of Handling Waste Disposal

Cuttings, drilling fluids, and produced fluids will be contained in the reserve pit and be allowed to evaporate. The reserve pit will be fenced on 3 sides and the 4th side will be fenced upon removal of the rig. The pits will be allowed to sit for 90 days and then pulled as required by NTL-2B. Produced water will be disposed of at an approved injection well or an evaporation site. Sanitary facilities and a steel mesh portable trash container will remain on location throughout drilling operations and will then be removed to a designated disposal area. The well site will be properly cleaned up upon removal of the rig.

8. Ancillary Facilities

To the best of our knowledge, no ancillary facilities will be needed at this time.

9. Well Site Layout

A. - C. Cross-sections etc. - see Exhibit E. Exact location of rig related equipment will be determined when Amoco contracts a drilling rig; however, all this equipment will be contained on location. The location diagram reflects actual area of well pad. Total disturbed area will vary due to cut and fill slopes.

Reserve pit(s) D. unlined

ned (8-10 mil reinforced plastic, size sufficient to cover pit area lined and fit underneath a rig tank)

10. Plans for Restoration of Surface

Restoration of the surface will be conducted after the reserve Α. pit has dried. The pit will then be cleaned up and back filled and the entire disturbed area will be recontoured. The topsoil stockpile will then be uniformly placed over this area and reseeding of the site will be carried out as instructed by the appropriate management agency. Methods to protect against erosion will be employed. After final abandonment, additional restoration efforts will be applied.

11. Surface Ownership

The surface owner is \mathcal{ALM}

12. Other Information

- General Description
 - Archeological clearance, topography, soil character, and flora and fauna are detailed in the archeologist's report forwarded by an approved contract archeologist to the appropriate management agency.
 - Land uses include recreation, grazing and oil and gas development.

13. Operator's Representative and Certification

Amoco Production Company P.M. Harris Region Drilling Supt. P. O. Box 800

Denver, Colorado 80201 (303) 830-4207

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 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 AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan/and the terms and conditions under which it is approved

P. M. Marris, Regional Drilling Supt.