Form 3760-3 (July 1989) (formerly 9-331C)

OFFICE FOR MAMBER

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10 - UB - 2740C BLM Roswell District Modified Form No. NM060-3160-2

UNITED STATES ME OIE COME ... COME AND COME DEPARTMENT OF THE INTERIOR DD

5. LEASE DERIGNATION AND REPLATING

BUREAU OF LAND MANAGEMENTOBIA. WM 88210							NM 19601				
APPLICA	ATION FOR	PERMIT TO D	RILL, I	DEEPEN,	OR P	LUG B	ACK	6. IF INDIAN, AL		OR TRIBE NAME	_
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b. Tipe of well	DRILL 😨	Di	EPEN (PLU	JG BAC	.к 🗀				
WELL XX	GAS WELL	OTHER		SINGLE Zone	KX	MULTIPE	-	8. FARM OR LEA	SE NAM	(E	_
2. NAME OF OFER		/				on Code 6	Phone No.	Union 35	Fede	eral	
	Y PETROLEUM	INC.			915/6	84-805	1	9. WELL NO.			_
3. ADDRESS OF OP								3			
415 W	. Wall, Suit	e 1500, Midla	nd, TX	79701				10. FIELD AND	POOL, O	R WILDCAT	_
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1805 ' FSL & 1980 ' FWL							Herradura Bend Delaware, East 11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA				
At proposed prod. zone Delaware								Sec.35,T-22-S, R-28-E NMPM (NT) K			
14. DISTANCE IN	MILES AND DIRECT	ION FROM NEAREST TO	VN OR POS	T OFFICE*	C. C	. D.		12. COUNTY OR PARISH 13. STATE			
10 mi	les southeas	st of Carlsbad			-			Eddy NM			
15. DISTANCE FRO LOCATION TO	NEAREST			16. NO. OF	ACRES IN	LEASE		OF ACRES ASSIGNE HIS WELL	D		
PROPERTY OR (Also to nea	LEASE LINE, FT. rest drig, unit line,	if any) 660 '		320				40			
	OM PROPOSED LOCATIVE DRILLING, CO			19. PROPOSED DEPTH			20. ROTARY OR CABLE TOOLS				_
OR APPLIED FOR	R, ON THIS LEASE, FI	· 1495 '		8	8500' R			Rotary			
21. ELEVATIONS (S 3072	Show whether DF, F GR	T, GR, etc.)						22. APPROX. D	ATE WO	RE WILL START	
23.		PROPO	SED CAS	ING AND CE	MENTING	PROGRAM	4				_
HOLE SIZE			GRADE TI		THREAD TYPE		RETTING DEPTH	QUANTITY OF CEMENT		-	
12½	8 5/8	24#	J-5	5	S	ST&C		450	See	BelowCIRC	ULATE
7 7/8	4 1/2 ·	11.60#	N-80	& J - 55	L	LT&C		8500	See	BelowCIRC	ULATE
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Cement 8 5	/8" casing i	using 425 SX P	remium	Plus ce	ement	contain	ing 2%	CaCl _z	1		
	casing as age +/- 600	follows: SX Premium Pl	us w/O	.6% Hala	ad - 3	22, 3%	Salt,	and 8#/SX	Sili	calite	
2nd St	200	SX Halliburti SX Premium Pl #/SX Silicalit	.us w/C					and,			
									1. 18 1 P.	7. ·	

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N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is one. If proposal is to drill or deepen directionally, give percepter program, # any.	to deepen c ertinent dat	or plug back, give data on present promote on subsurface locations and measur	eductive zone and proposed new productive ed and true vertical depths. Give blowout
signed Wilkes)	TITLE _	Chief Engineer	DATE 3/3/93
(This space for Federal or State office use)	<u> </u>		
PERMIT NO.		APPROVAL DATE	
INDIO SODIRICHARD 1. MIN C	できてしま	APPA MANAGER	DATE 4/12/93
APPROVAL SUBJECT TO			

GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS

*See Instructions On Reverse Side

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 5 copies

State of New Mexico

En: y, Minerals and Natural Resources epartment

Form C-102 Revised 1-1-69

OIL CONSERVATION DIVISION

DISTRICT I P.O. Box 1980, Hobbs, NM 58240 P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT III 1000 Rio Brazos Rd., Astec, NM 87410

All Distances must be from the outer boundaries of the section

			,						
Operator HANLEY PETROLEUM, INC.				Lease	UNION 35 F	EDERAL	Well No.		
				Range			County		
Unit Letter	Secti					NMPM		EDDY	
K		35	22 3001	<u> </u>		20 001	HEFE	1	
Actual Footage I		COL	ЛН _{Hne end}		1980		feet from	the WES	T line
1805 ground Level E	eet from	Producing For			Pool		1000 11000		Dedicated Acreage:
3072.5	,•	De	laware		E.H	emadun			40 Acres
1. Outline the	Acres	dedicated to	the subject well by	colored pe	ncil or bach	ure marks on the	e plat below. SU	~	
							hereof (both	to working	ng interest and royalty).
3. If more th	an one	lease of differ	ent ownership is ded	licated to	the well, ha	we the interest of	of all owners	been consol	lidated by communitization,
		pooling, etc.?	If answer is "yes	type of	consolidati	on			
∐ Yes			nd tract descriptions				ed. (Use reve	rse side of	
No allowable	will b	e assigned to	the well unit all	interests	have been terest, has	. consolidated (been approved b	by commun y the Divisi	itization, u	nitization, forced-pooling,
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		ř	1					on this plat	was plotted from field notes of
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1		1/ 7000	.3. 3072.0.			i		correct to	the best of my knowledge and
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Union 35 Federal Well #3 1805' FSL & 1980' FWL Section 35, Township 22-S, Range 28-E Eddy County, New Mexico

Application For Drilling

In conjunction with Form 3160-3, Application For Permit to Drill, Hanley Petroleum Inc. submits the following Ten items of pertinent information in accordance with BLM Requirements:

- 1. The geologic age of the surface formation is Quartenary.
- 2. The estimated tops of certain Geologic Markers are as follows:

Rustler
Salado
Castile
Delaware SS
Cherry Canyon
Brushy Canyon
Bone Spring

1070
1780
2473
2720
4772
6272

3. The estimated depths at which oil, water or gas are expected to be encountered are:

 Ogalian
 Above
 450

 Cherry Canyon
 3600 - 3800

 Brushy Canyon
 5900 - 6200

 Bone Spring
 8250 - 8400

- 4. Casing Program: See attached Form 3160-3 and Exhibit E.
- 5. Blowout Equipment Specifications: See attached Form 3160-3 and Exhibit D.
- 6. Mud Program: See Exhibit F.
- 7. Auxiliary Equipment: A stabbing valve will be kept on rig floor to be used when Kelly is not in string. Upper and lower Kelly cocks will be in place and tested, and the wrench will be in a conspicuous place on the floor at all times.
- 8. Testing, Logging and Coring Programs:
 - A. DST's None anticipated
 - B. Wireline Logs
 - C. Cores None anticipated
- 9. No abnormal pressures or temperatures are anticipated.
- 10. Anticipated starting date: As soon as possible.

Union 35 Federal Well #3 1805' FSL & 1980' FWL Section 35, Township 22-S, Range 28-E Eddy County, New Mexico

Exhibit E

SUMMARY

Drilling, Drillstem Test, Casing and Cementing Programs:

- 1. Drill 12 1/4" hole to 450'.
- 2. Cement 8 5/8" 24# J-55 casing back to surface w/320 sx Premium Plus cement containing 2% calcium chloride.
- 3. WOC 8 hours. Install and test Blowout preventers. Test casing to 1000 psi after 12 hours.
- 4. Drill 7 7/8" hole to 8500'.
- 5. Run 4 1/2" 11.60# N-80 & J-55 casing with a D.V. tool @ +/- 5000'.

Cement as follows:

1st stage: +/- 600 sx Premium Plus w/ 0.6% Halad-322, 3%

salt and 8 #/sx Silicalite.

2nd stage: +/- 425 sx Halliburton Lite w/ 6 #/sx salt

followed by 200 sx Premium Plus w/ 0.6% Halad-322, 3% salt, and 8 #/sx Silicalite.

6. Perforations and stimulation to be determined after completion of drilling operations.

Union 35 Federal Well #3
1805' FSL & 1980' FWL
Section 35, Township 22-S, Range 28-E
Eddy County, New Mexico

Exhibit F

DRILLING FLUID PROGRAM

Surface:

Spud and drill surface hole with a fresh water gel with lime. Maintain a 35 to 40 second/quart viscosity. To control seepage or loss circulation add paper.

Production:

If compatibility tests indicate that it is necessary, Delaware produced water will be used to drill the production hole. Caustic soda or lime will be used to control pH from 9.5 to 10. The source of this produced water is Fortson Oil Co.'s Pinnacle State Lease located in Section 36, T-22S, R-28E. Permission has been obtained from theNMOCD Artesia District for use of this produced water prior to proper disposal.

If necessary, add paper to control seepage. Sweep hole as needed with viscous salt gel pills.

If hole problems dictate, lower water loss to 15 cc or less to log.

Union 35 Federal Well #3 1805' FSL & 1980' FWL Section 35, Township 22-S, Range 28-E Eddy County, New Mexico

DRILLING PROGNOSIS

Location:

1805' FSL & 1980' FWL of Section 35, Township 22-South, Range 28-East, Eddy County, New Mexico.

Proposed Depth:

6400' (Delaware) 8500' (Bone Spring)

Elevation:

3072' GL

Contractor:

To be determined.

Note: Since this is a Federal Lease, evidence of BLM approval to drill and a copy of the Multipoint Surface Use Plan must be kept in the doghouse during drilling operations. The BLM will also have to be provided with a written report of daily operations.

Mailing Address:

U.S. Department of the Interior Bureau of Land Management P.O. Box 1778 Carlsbad, NM 88221

Samples & Drilling Time:

1' drilling time on geolograph from 500' to TD.

Mud Logger:

From 2700 to TD full mudlogging services are required.

Test Equipment:

None required while drilling.

Union 35 Federal Well #3 1805' FSL & 1980' FWL Section 35, Township 22-S, Range 28-E Eddy County, New Mexico

Drilling Prognosis cont.

Detailed Procedure

1. Location

- A. Stake location.

 Location staked by John West Engineering on 02-23-93.
- B. Obtain Archaeological Clearance Report for location and right of ways.
- C. After BLM approval, build location, roads and cellar.
- D. MIRU. Keep all rig moving equipment on the road and pad.

2. Surface Hole

- A. Notify the BLM in Carlsbad at least 24 hrs prior to spud.
- B. Spud and drill a 12 1/4" hole to 450' using spud mud and paper for seepage.

3. Surface Casing

- A. Run and set 8 5/8" 24# J-55 casing to 450'. Use a Texas Pattern Shoe and insert float. Centralize bottom 3 joints and every other joint back to surface.

 Note: Notify BLM prior to cementing.
- B. Cement casing back to surface with 320 sx Premium Plus cement containing 2% calcium chloride.
- C. WOC 8 hours before cutting off and NU wellhead and BOP's.

4. Blowout Preventers

- A. Install 12" 3000# WP Dual Hydraulic operated BOP's, choke manifold and kill lines.

 Note: Notify BLM prior to testing BOP's.
- B. Pressure test blind rams, pipe rams, choke manifold, Kelly cocks and safety valve to 1500=. Test mud lines to 1500#.
- C. Operate pipe rams daily and blind rams every trip. Results are to be recorded in daily drilling report.

Union 35 Federal Well #3 1805' FSL & 1980' FWL Section 35, Township 22-S, Range 28-E Eddy County, New Mexico

Drilling Prognosis cont.

5. Production Hole

- A. Test 8 5/8" casing to 1000#. Drill out cement and float equipment and drill 7 7/8" hole to 8500'.
- B. Drill with +/- 10# brine or produced water. Control lost circulation with paper. Use salt gel and paper pills to sweep hole.
- C. Switch to steel pits at 8200'.
- D. Circulate and condition hole to log. Strap out of hole.
- E. Run Compensated Nuetron/Compensated Z Density/Dual Laterolog/Microlaterolog.

6. Production Casing

- A. RIH w/bit and condition hole to run casing. POH LD DP & DC's.
- B. Run and set 4 1/2" casing as follows:
 - 4 1/2" 11.60# N-80 LT&C 850' 4 1/2" 11.60# J-55 LT&C 7650'

Install shoe, one joint of casing and then float collar.

- C. Install DV tool at +/- 5000' from surface.
- D. Cement $4 \frac{1}{2}$ " casing as follows:

1st stage: +/- 600 sx Premium Plus w/ 0.6% Halad-322, 3%

salt and 8 #/sx Silicalite.

2nd stage: \pm /- 425 sx Halliburton Lite w/ 6 \pm /sx salt

followed by 200 sx Premium Plus w/ 0.6% Halad-322, 3% salt, and 8 #/sx Silicalite.

Cement values may be adjusted after obtaining caliper logs. The intent is to circulate cement on all strings.

7. Completion

Perforations and frac job to be determined after log evaluation.

Union 35 Federal Well #3 1805' FSL & 1980' FWL Section 35, Township 22-S, Range 28-E Eddy County, New Mexico

Multi-point Surface Use and Operations Plan

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of operations, so that a complete appraisal can be made of the environmental effects associated with the operation.

1. Existing Roads

- A. Exhibit A is a copy of USGS topographic map of the area on a scale of approximately 1" = 2000', showing the location of the proposed well site and the planned access roads.
- B. Directions: From Carlsbad South East on Hwy. 285 seven (7) miles, East on Hwy. 31 five (5) miles, North on Eddy Co. Road #605 three (3) miles. Right on lease road .3 miles then right .2 miles then right .3 miles to location.

2. Planned Access Road

- A. The proposed new road will be approximately 1600' in length beginning at the Northwest corner of the location and proceeding north to existing lease road.
- B. The new road will be 12 ft. wide except at the point of origin where enough extra width will be provided to allow trucks and heavy equipment to turn.
- C. The new road will be watered, compacted and graded with a 6" crown and drainage on both sides. No turnouts will be necessary.
- D. The center line of a 30 ft. wide path along the proposed route has been staked and flagged for inspection purposes.

3. Location of Existing Wells

A. Exhibit B is a map showing the location of all wells within a 1-mile radius of the proposed wellsite.

Union 35 Federal Well #3 1805' FSL & 1980' FWL Section 35, Township 22-S, Range 28-E Eddy County, New Mexico

Multi-point Surface Use and Operations Plan (cont.)

- 4. Location of Proposed Facilities:
 - A. Production facilities are located on the Union 35 Federal #1 pad. This well is located 1780' FNL & 660' FWL of Section 35.
 - B. In the event of a producible well, these facilities may be modified to accommadate the additional production.
 - C. A steel flowline will be laid along the proposed access road to the battery.
- 5. Location and Type of Water Supply
 - A. Fresh water and commercial brine will be furnished and trucked by contractor.
 - B. If compatibility tests indicate it is necessary to use Delaware produced water to drill below the surface pipe. It will be secured from the Fortson Oil Company Pinnacle State Lease, located in Section 36. This water will be hauled by contractor.
- 6. Source of Construction Materials
 - A. Material for surfacing road and pad will be the existing caliche on location.
- 7. Methods of Handling Waste Disposal
 - A. Drilling cuttings will be disposed of in the drilling pits.
 - B. Drilling fluid will be hauled to subsequent drilling locations and the pits allowed to evaporate until dry. Oil Base drilling fluids, if used, will be returned to the mud company.
 - C. Water produced during the tests will be disposed of in the drilling pits and hauled to an approved salt water disposal well.
 - D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - E. Trash, waste paper, garbage and junk will be placed in a covered bin and hauled off.
 - F. All trash and debris will be buried or removed from the wellsite within 30 days after completion of operations.
 - G. All pits will be lined.

Union 35 Federal Well #3 1805' FSL & 1980' FWL Section 35, Township 22-S, Range 28-E Eddy County, New Mexico

Multi-point Surface Use and Operations Plan (cont.)

8. Ancillary Facilities

None required.

- 9. Wellsite Layout
 - A. Exhibit C shows the relative location of the pad, mud pits, reserve pit and major rig components.
 - B. The well site is located on a relatively flat area. The reserve pit will be located East of the well as staked. All location disturbances will be contained within the 400' X 400' area covered by the archaeological survey.
 - C. A fence will be constructed on the north and east sides of the location to limit access to archaelogical site No. ASC 93-030.
- 10. Plans for Restoration of Surface
 - A. After finishing drilling and completion operations, all equipment and other materials not necessary for operations will be removed. Pits will be filled and leveled, and the location cleaned of all trash and junk to leave the wellsite in an as aesthetically pleasing condition as possible.
 - B. Any unguarded pits containing fluids or trash will be fenced until they are filled or leveled.
 - C. After abandonment of the well, all equipment will be removed, the location will be cleaned and the pad and access road will be ripped and returned to as near the original appearance as is possible. All rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with.

11. Other Information

- A. Topography:
 The location is at an elevation 3072' and slopes south-southwest toward the Pecos River.
- B. Soil:

 Top soil at the wellsite is silty clay loam underlain by caliche.

Union 35 Federal Well #3 1805' FSL & 1980' FWL Section 35, Township 22-S, Range 28-E Eddy County, New Mexico

Multi-point Surface Use and Operations Plan (cont.)

- C. Flora and Fauna
 Vegetative cover is sparse and consists primarily of mesquite
 and broomweed interspersed with greasewood and very little
 grass. Wildlife in the area includes rabbits, dove, quail,
 lizards, snakes, and other inhabitants of semi-arid climate.
- D. Ponds and Streams
 The Pecos River lies 1 1/4 miles to the south of the proposed well.
- E. Residences and Structures
 None on lease.
- F. Archaelogical, Historical and Cultural Sites
 Archaelogical site No. ASC 93-030 has been defined and
 exists to the north and east of the proposed location. In
 order to limit access to the area a fenceline will be
 constructed. The archaelogical report has been sent under
 seperate cover to the BLM's Carlsbad District Office.
- G. Land Use Hunting in season.
- H. Surface Owner

 The wellsite and the proposed new road are on Federal surface.
- 12. Operators Representatives

Greg Wilkes
415 W. Wall, Suite 1500
Midland, Texas 79701
Phone: (915)684-8051 (0)
(915)697-9745 (H)

Contract Field Personnel

William R. Huck
P.O. Box 8063
Midland, Texas 79708
Phone: (915)683-1885 (0)
(915)697-0226 (H)

Joe Loftin
P.O. Box 183
Midkiff, Texas 79755
Phone: (915)563-2463 (O)
(915)693-2221 (H)

Union 35 Federal Well #3 1805' FSL & 1980' FWL Section 35, Township 22-S, Range 28-E Eddy County, New Mexico

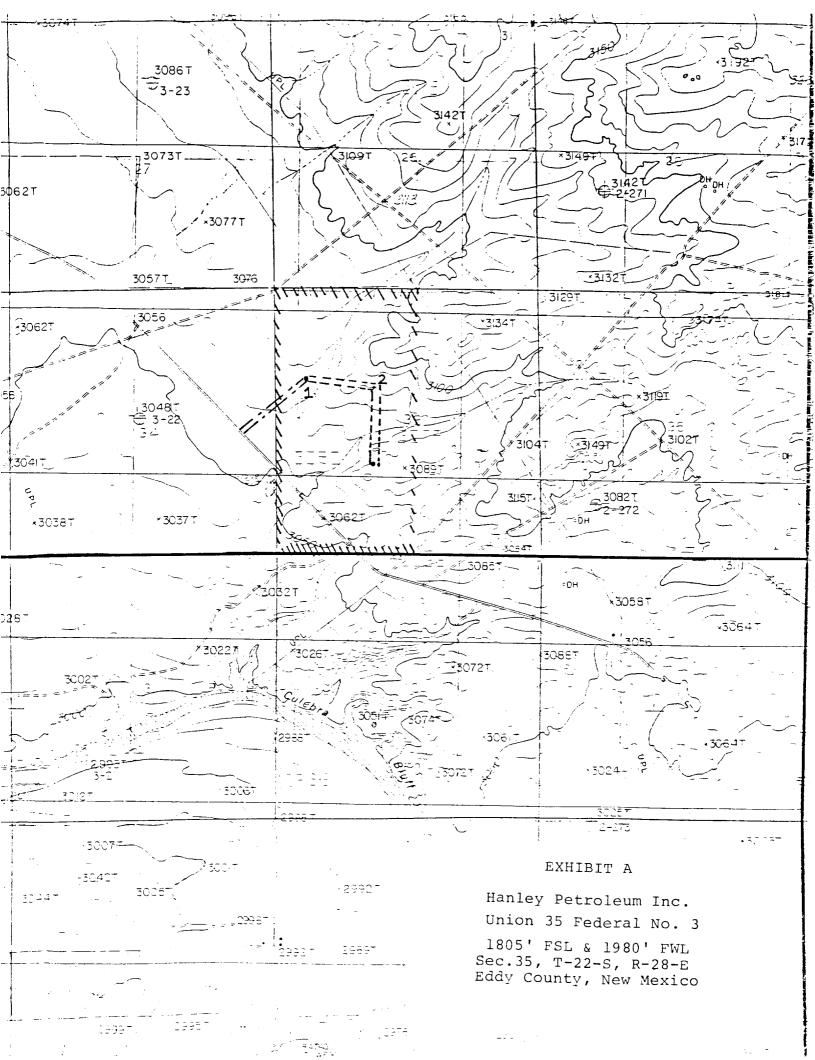
Multi-point Surface Use and Operations Plan (cont.)

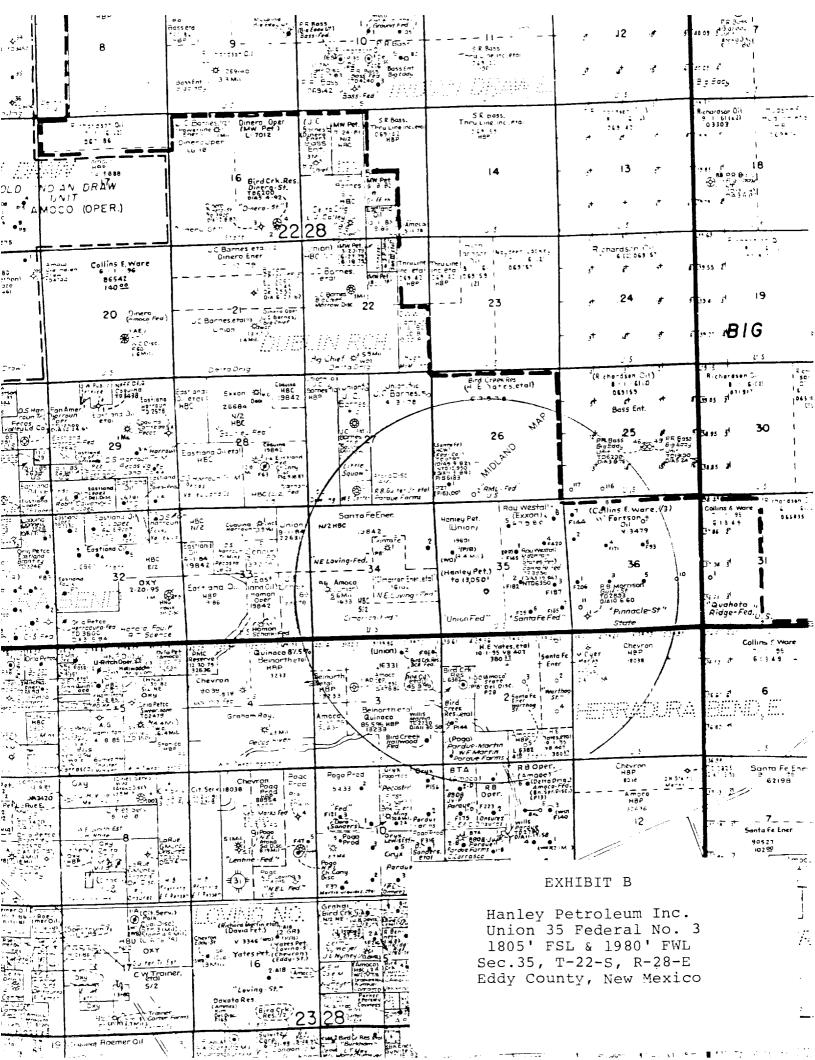
13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 corect; that the work associated with the operations proposed herein will be performed by Hanley Petroleum Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

February 24, 1993 Date

Greg Wilkes





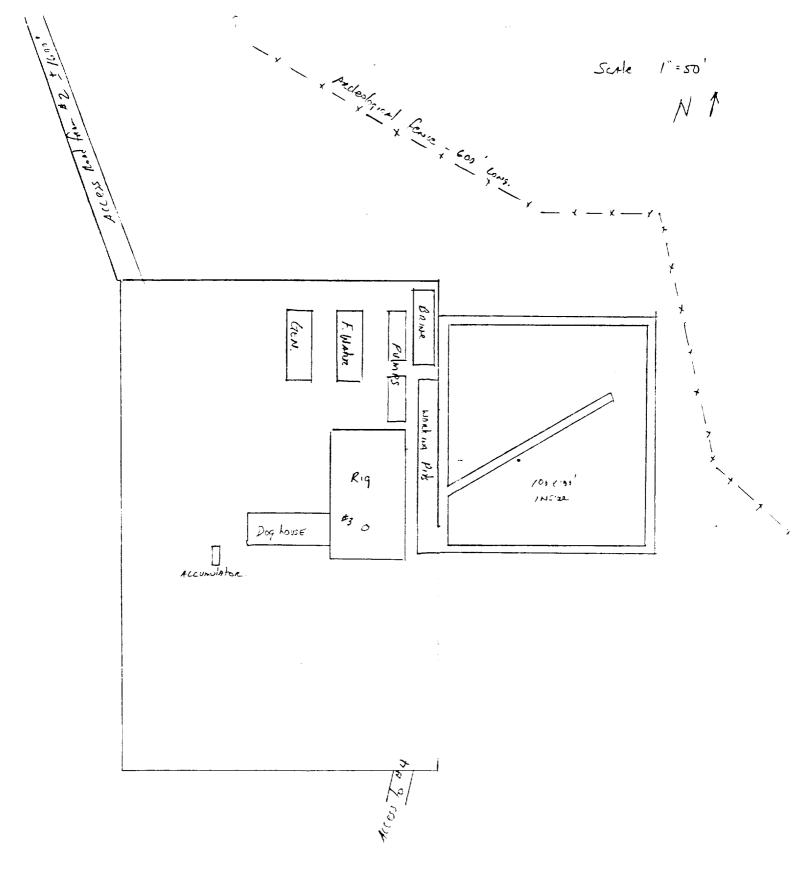


EXHIBIT C

Hanley Petroleum Inc. Union 35 Federal No. 3 1805' FSL & 1980' FWL Sec.35, T-22-S, R-28-E Eddy County, New Mexico Hanley Petroleum Inc. Union 35 Federal No. 3 1805' FSL & 1980' FWL Sec.35, T-22-S, R-28-E Eddy County, New Mexico

