

DATE: 10/15/85
(Other instructions on reverse side)

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	700 CIRCULAR	600 sx. CL "C"
11"	8-5/8"	24# & 32#	4050 CIRCULAR	1000sx CL "C" tail w/200sx CL C
7-7/8"	5-1/2"	15.5#	8200	400sx CL "C" TOC @6000'

POSTED ID-1
API #
NL
4-9-74
RECEIVED
NOV 02 12 37 PM '93
CARLETON COLLEGE
AREA STUDENT SERVICES

ATTACHED
Title 18 U.S.C. Section 1001, makes 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.

AMENDED LOCATION
State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-182
Revised 1-1-89

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

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

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

Operator PHILLIPS PETROLEUM COMPANY			Lease CHRISTOPHER "31" FEDERAL			Well No. #1		
Unit Letter A	Section 31	Township 23 SOUTH	Range 31 EAST	County EDDY		NMPM		
Actual Footage Location of Well: 1100 feet from the NORTH line and 330 feet from the EAST line								
Ground level Elev. 3352'		Producing Formation UNDESIGNATED(DELAWARE)			Pool Undesignated (Delaware)		Dedicated Acreage: 4.0 Acres	
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>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).</p> <p>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.? <input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation _____</p> <p>If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>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.</p>								
						<p>OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature <i>L. M. Sanders</i></p> <p>Printed Name L. M. Sanders</p> <p>Position Supervisor, Reg. Affairs</p> <p>Company Phillips Petroleum Co.</p> <p>Date November 01, 1993</p>		
<p>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 supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>Date Surveyed OCTOBER 22, 1993</p> <p>Signature & Seal of Professional Surveyor <i>[Signature]</i></p> <p>Certificate No. 4882</p>								

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 0

PHILLIPS PETROLEUM COMPANY
DRILLING PROGRAM

Attached to BLM Form 3160-3

Lease Name: Christopher "31" Federal
Well No.: 1
Location: Surface: 1100' FNL & 330' FEL, Section 31, T-23-S, R-31-E.
BHL: 890' FNL & 430' FEL
Eddy County, New Mexico

1. Geological name of surface location:

Triassic

2. Estimated tops of important geological markers:

<u>Name</u>	<u>Depth</u>
<u>Lamar LS</u>	<u>4075'</u>
<u>Bell Canyon</u>	<u>4100'</u>
<u>Cherry Canyon</u>	<u>5200'</u>
<u>Brushy Canyon</u>	<u>6648'</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
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3. Estimated depths of anticipated fresh water, oil & gas:

<u>Formation</u>	<u>Depth</u>	<u>Fresh Water/Oil/Gas</u>
<u>Brushy Canyon</u>	<u>7650'</u>	<u>Oil</u>
<u>Brushy Canyon</u>	<u>7800'</u>	<u>Oil</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 13-3/8" casing at 700' and circulating cement back to surface. Any shallower zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across them by inserting a cementing stage tool into the 7-7/8" production casing which will be run at TD.

Phillips Petroleum Company
Lease Name: Christopher "31" Fed.
Well No.: 1
Page 2

4. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg.</u>	<u>Weight, Grade, Type</u>
<u>17-1/2"</u>	<u>0-700'</u>	<u>13-3/8"</u>	<u>48# H-40 ST&C</u>
<u>11"</u>	<u>0-4050'</u>	<u>8-5/8"</u>	<u>0-2200' 24# J-55, 2200 -</u>
			<u>4050 32# J-55 ST&C</u>
<u>7-7/8"</u>	<u>0-8200'</u>	<u>5-1/2"</u>	<u>15.5# J-55 ST&C</u>

Cement Program:

SJS

NA " Conductor Casing:

13-3/8" Surface Casing: 600 sx Class C + 2% CaCl₂

8-5/8" Intermediate Casing: Lead 1000 sx Class C, 65/35 Poz + 6% Gel
+ 15 lb/sx salt. Tail 200 sx Class C +
10 lb./sx salt.

5-1/2" Production Casing: Stage tool @ approx. 6000'. 1st Stg:
400 sx Class C + additives TOC=6000'
2nd Stg: Lead 350sx Class C + 65/35
Poz + 6% gel + 3% salt. TOC = 3500'.
Tail w/150 sx Class C Neat.

5. Minimum Specifications for Pressure Control:

SJS The blowout preventer equipment (BOP) schematic attached will consist of a double ram-type (3000 psi WP) preventer and/or a bag-type (hydril) preventer (NA psi WP). BOP will be hydraulically operated and the ram-type preventer will be equipped with blind rams and appropriate pipe rams. The BOP will be nipped up on the 13-3/8" surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 2000 psi and the hydril to 50% of rated working pressure (2100 psi). Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and 3" choke line will be attached to a drilling spool or BOP side outlets. Other accessories to the BOP equipment will include a kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 3000 psi WP rating.

Phillips Petroleum Company
Lease Name: Christopher "31" Fed.
Well No.: 1
Page 3

6. Types & Characteristics of the Proposed Mud System:

The well will be drilled with fresh water to 13-3/8" casing point,
saturated brine to 8-5/8" csg. point and cut brine/starch to TD.

The applicable depths and properties of this system are as follows:

<u>Depth</u>	<u>Type</u>	<u>Weight (ppg)</u>	<u>Viscosity (sec)</u>	<u>Waterloss (cc)</u>
<u>700'</u>	<u>FW</u>	<u>8.3- 8.8</u>	<u>28-30</u>	<u>N/C</u>
<u>4050'</u>	<u>SatBrine</u>	<u>10.0-10.2</u>	<u>28-30</u>	<u>N/C</u>
<u>6500'</u>	<u>CutBrine</u>	<u>8.5- 8.7</u>	<u>28-30</u>	<u>N/C</u>
<u>8200'</u>	<u>CutBrine/</u> <u>Starch</u>	<u>8.7- 9.0</u>	<u>30-36</u>	<u><15</u>

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- A. A kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- C. An electronic pit-volume-totalizer system will be used continuously below N/A ' to monitor the mud and pump system. The drilling fluids system will also be visually monitored at all times.
- D. A mud logging unit will be continuously monitoring drilling penetration rate and hydrocarbon shows from 1000' to TD.
- E. A fixed electronic H₂S monitoring system including alarms with monitors at the shaker and at the bell nipple will be in operation from surface casing to TD.

8. Logging, Testing & Coring Program:

- A. Drillstem tests: None anticipated.
- B. Electric logging program: DLL/MSFL/GR/CAL/DSN/SDL/CAL
- C. Coring: None anticipated.

Phillips Petroleum Company
Lease Name: Christopher "31" Fed.
Well No.: 1
Page 4

9. Abnormal Conditions, Pressures, Temperatures & Potential Hazards:

None anticipated.

10. Anticipated Starting Date & Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is upon approval. Once commenced, the drilling operation should be finished in approximately 18 days. If the well is productive, an additional 21 days will be required for completion and testing.

11-01-93
AF:ehg

RegPro:AFran:ChstFd1.DP

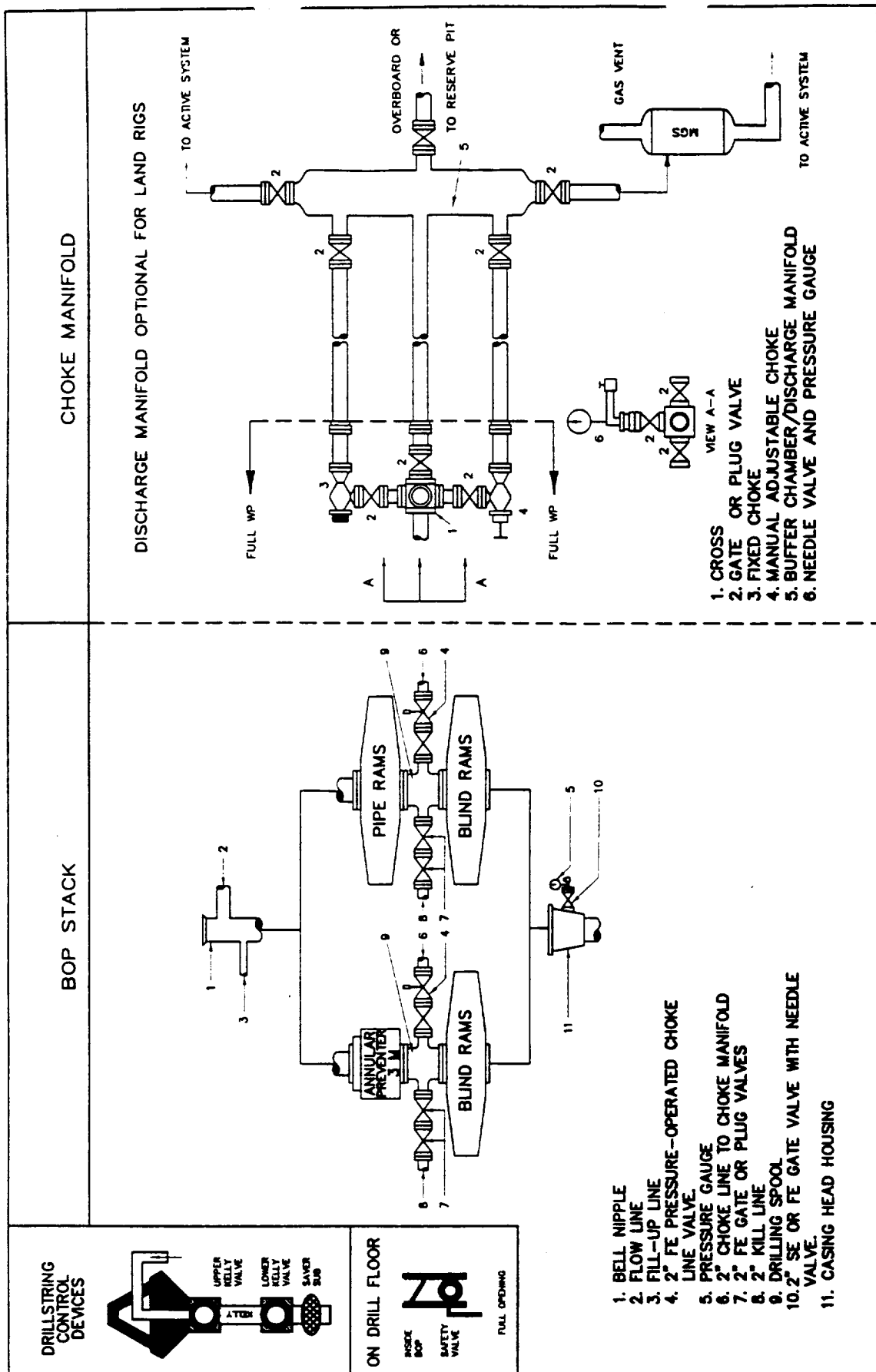


Fig. 2.4. Class 2 BOP and Choke Manifold.

PHILLIPS PETROLEUM COMPANY
SURFACE USE PLAN

Attached to Form 3160-3

Lease Name: Christopher "31" Fed.

Well No.: 1

Location: 1100' FNL, 330' FEL, Sec. 31
T-23-S, R-31-E, Eddy Co., NM

1. Existing Roads:

- A. The well site and elevation plat for the proposed well is shown on attached plat.
- B. Existing roads are indicated on attached map. Existing roads are adequate for travel during drilling and production operations. Upgrading of the road prior to drilling well be done where necessary as determined during the onsite inspection.
- C. Directions to location: From Hobbs west on 62/180 to Hwy. 31,
south on 31 to Hwy 128, east to Twin Wells Rd., South 3 miles,
east 1/2 mile.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

2. Proposed Access Roads:

Attached map indicates the proposed 550 ' of new access road to be constructed. The road will be constructed as follows:

- A. The maximum width of the running surface will be 12 '. The road will be crowned and ditched and constructed of 6" of rolled and compacted caliche. Ditches will be 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns. BLM may specify any additions or changes during the onsite inspection.
- B. The average grade will be less than 1%.
- C. No turnouts are planned.
- D. Culverts, cattle guard, low-water crossings, fence cuts:
None
- E. Surface material will consist of native caliche. Caliche will be obtained from nearest BLM approved pit. Any additional materials required will be purchased from the dirt contractor.

F. The proposed access road will be centerline flagged.

3. Location of Existing Wells:

Proposed Christopher "31" Fed. #2, 1980' FNL & 330' FEL, Section 31,
T-23-S, R-31-E, Eddy County, NM. Proposed Christopher "31" Fed. #3,
660' FSL & 330' FEL, Sec. 31, T-23-S, R-31-E, Eddy County, NM.

4. Location of Existing and/or Proposed Facilities:

A. Tank Battery: Proposed tank battery to be located at the
proposed Christopher Federal "31" No. 2 wellsite: 1980' FNL &
330' FEL, Sec. 31, T-23-S, R-31-E, Eddy County, NM.

B. Flowlines: To run along side proposed road to the proposed
tank battery to be located at the Christopher Federal "31" No.
2 wellsite (central lease location).

5. Location and Type of Water Supply:

To be hauled by transport.

6. Source of Construction Materials:

All caliche required for construction of the drill pad and the proposed new access road will be obtained from a BLM approved caliche pit.

7. Methods of Handling Waste Disposal:

A. Drilling cuttings not retained for evaluation purposes will be disposed into the reserve pit.

B. Drilling fluids will be contained in steel mud tanks. The reserve pit will contain any excess drilling fluid or flow from the well during drilling, cementing, and completion operations. The reserve pit will be an earthen pit, approximately 100' X 100' X 5' deep and fences on three sides prior to drilling. It will be fenced on the fourth side immediately following rig removal. The reserve pit will be plastic-lined to minimize loss of drilling fluids and saturation of the ground with brine water.

Phillips Petroleum Company

Surface Use Plan

Lease Name: Christopher "31" Fed. #1

Page 3

- C. Water produced from the well during completion may be disposed into the reserve pit or steel tank. After the well is permanently placed on production, produced water will be collected in tanks until hauled by transport to an approved disposal system or separate disposal application will be submitted for appropriate approval; produced oil will be collected in steel tanks until sold.
- D. A portable chemical toilet will be provided on the location for human waste during the drilling and completion operations.
- E. Garbage and trash produced during drilling or completion will be put in trash trailer. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. All waste material will be contained to prevent scattering by the wind. No toxic waste or hazardous chemicals will be produced by this operation.
- F. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned-up within 30 days. No adverse materials will be left on the location. The reserve pit will be completely fenced and netted and kept closed until it has dried. When the reserve pit is dry enough to break out and fill and, as weather permits, the unused portion of the well site will be leveled and reseeded as per BLM specifications. Only the part of the pad required for production will be kept in use. In the event of a dry hole, only a dry hole marker will remain.

8. Ancillary Facilities:

No airstrip, campsite, or other facilities will be built as a result of the operations on this well.

9. Well Site Layout:

- A. Drill pad: 250' x 165' or 125' east, 125' west, 125' south
and 40' north from wellbore.

- B. Attached plat shows planned orientation for the rig and associated drilling equipment, reserve pit, pipe racks, turn-around and parking areas, and access road. No permanent living facilities are planned but a temporary foreman/toolpusher's trailer will be on location during the drilling operations.
- C. The reserve pit will be lined with a high-quality plastic-sheeting.

Phillips Petroleum Company

Surface Use Plan

Lease Name: Christopher "31" Fed. #1

Page 4

10. Plans for Restoration of the Surface:

- A. Upon completion of the proposed operations, if the well is to be abandoned, the caliche will be removed from the location and road and returned to the pit from which it was taken. The pit area, after allowing to dry, will be broken out and leveled. The original top soil will be returned the entire location which will be leveled and contoured to as nearly the original topography as possible.

All trash, garbage and pit lining will be buried or hauled away in order to leave the location in an aesthetically pleasing condition. All pits will be filled and the location leveled within 120 days after abandonment.

- B. The disturbed area will be revegetated by reseeding during the proper growing season with a seed mixture of native grasses as recommended by the BLM.
- C. Three sides of the reserve pit will be fences prior to and during drilling operations. At the time the rig is removed, the reserve pit will be fenced on the rig (fourth) side and netted to prevent livestock or wildlife from being entrapped.

The fencing and netting will remain in place until the pit area is cleaned-up and leveled. No oil will be left on the surface of the fluid in the pit. The entire reserve pit will be netted until the fluid has completely evaporated.

- D. Upon completion of the proposed operations, if the well is completed, the reserve pit area will be treated as outlined above within the same prescribed time. Topsoil removed from the drill site will be used to recontour the pit area and any uncased portions of the drill pad to the original natural level and reseeded as per BLM specifications.

11. Surface Ownership:

The wellsite and lease is located entirely on Federal surface.

12. Other Information:

- A. Terrain: See Archaeological Report
- B. Soil: See Archaeological Report
- C. Vegetation: See Archaeological Report
- D. Surface Use: Possible grazing
- E. Ponds and Streams: None
- F. Water Wells: None
- G. Residences and Buildings: None

Phillips Petroleum Company
Surface Use Plan

Lease Name: Christopher "31" Fed. #1

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- H. Arroyos, Canyons, Etc.: See Archaeological Report
- I. Well Sign: To be installed prior to commencement of drilling operations.
- J. Archaeological Resources: See Archaeological Report.

13. Lessees's and Operator's Representative:

The Phillips Petroleum Company representatives responsible for assuring compliance with the surface use plan are:

R. C. Ainsworth
4001 Penbrook
Odessa, Texas 79762
(915) 368-1261

or

T. J. Bogan
4001 Penbrook Street
Odessa, TX 79762
(915) 368-1262

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the 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 Phillips Petroleum Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.



L. M. Sanders, Supervisor
Regulatory Affairs

November 1, 1993

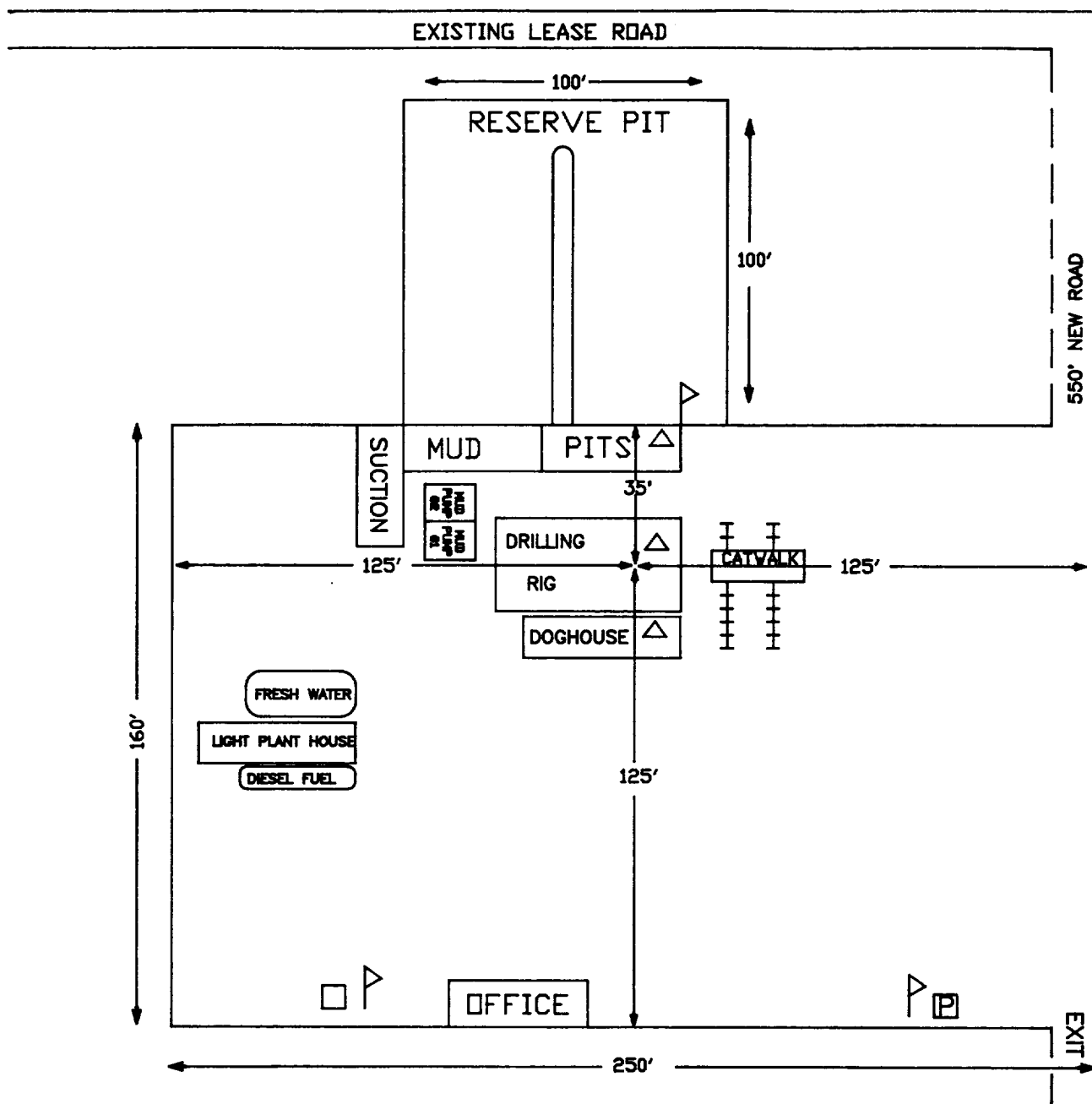
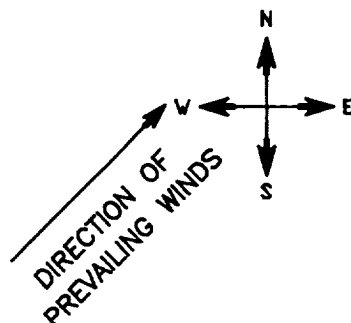
Date



PHILLIPS PETROLEUM CO.

CHRISTOPHER FED. 31 WELL #1

- △ H₂S MONITORS w/ALARMS
- BRIEFING AREA, MIN. 150' FROM WELLHEAD. ▣ = PRIMARY AREA
- ▷ WIND DIRECTION INDICATORS





NMAS
New Mexico Archaeological Services, Inc.

P.O. Box 1341
Carlsbad, New Mexico 88221-1341
(505) 887-7646 • FAX (505) 885-2587
28 October 1993

Reconnaissance
Excavation
Analysis
Explanation
Curation

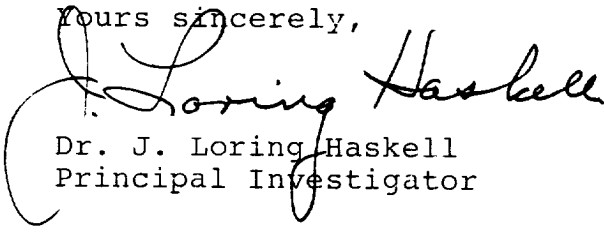
Mr. Ron Ainsworth
PHILLIPS PETROLEUM COMPANY
4001 Penbrook
Odessa, Texas 79762

Dear Mr. Ainsworth:

Enclosed please find NMAS' Archaeological Survey Report for PHILLIPS PETROLEUM COMPANY's proposed Christopher "31" Federal Well No. 1 in Eddy County, New Mexico. No cultural resources were recorded during this survey; therefore, NMAS is suggesting clearance for this project.

If you have any questions pertaining to this report, please call my office. Thank you for asking NMAS to do this survey.

Yours sincerely,


Dr. J. Loring Haskell
Principal Investigator

as

Enclosure

ARCHAEOLOGICAL SURVEY OF PHILLIPS PETROLEUM COMPANY's Christopher
"31" Federal Well No. 1, 1100' FNL, 330' FEL, Section 31, T23S,
R31E, NMPM, Eddy County, NM

FEDERAL LAND SURFACE

MAP REFERENCE: USGS LOS MEDANOS QUADRANGLE, 7.5 Minute Series,
1985, Prov. Ed.

REPORT NUMBER: 93-NMAS-15-O

by Dr. J. Loring Haskell, Principal Investigator

NEW MEXICO ARCHAEOLOGICAL SERVICES, INC.
P.O. Box 1341, Carlsbad, New Mexico 88221-1341
(505) 887-7646

PERMIT NUMBER: 14-2920-93-N

28 October 1993

Prepared for: PHILLIPS PETROLEUM COMPANY
4001 Penbrook
Odessa, Tx 79762

Attention: RON AINSWORTH

Distribution: PHILLIPS PETROLEUM COMPANY (1)
Bureau of Land Management (2)

NEW MEXICO ARCHAEOLOGICAL SERVICES, INC.
PERMIT NUMBER: 14-2920-93-N

CULTURAL RESOURCES EXAMINATION
REPORT NUMBER: NMAS-93-15-0

ABSTRACT: CLASS III SURVEY OF PHILLIPS PETROLEUM COMPANY's proposed Christopher "31" Federal Well No. 1, 400' X 400', 4.44 acres. No cultural resources were recorded during this survey. Clearance is suggested for this project.

Christopher "31" Federal Well No. 1

LEGAL LOCATION: NE $\frac{1}{4}$ NE $\frac{1}{4}$, (1100' FNL, 330' FEL), Section 31, T23S, R31E, NMPM, Eddy County, NM

MAP REFERENCE: USGS LOS MEDAÑOS QUADRANGLE, 7.5 Minute Series, 1985, Prov. Ed.

LAND STATUS: BLM, Roswell District, Carlsbad Resource Area, NM

PROJECT DESCRIPTION: Location, 400' X 400', 4.44 acres.

TOPOGRAPHY/FLORAL FORMATION: PHILLIPS PETROLEUM COMPANY's proposed location will be situated on an aeolian landform whose surface is distinguished by minor dune development. Micro-relief ranges between 0.50 and 1.20 m in height. Lithic inclusions are generally absent in peds. Local soil individuals are supportive of a scrub formation. ELEVATION: 3352'. EXAMINATION PROCEDURE: Zigzag transects, 8.0 m wide, close interval (15° or less). FIELD TIME: 1½ hours. AREA DELINEATION: Staked by client. VISIBILITY: 75 to 85%. WEATHER: Mostly cloudy and calm conditions.

FINDINGS: BLM Records, 27 September 1993, Arita K. Slate, Section 31 (no archaeological sites), T23S, R31E, NMPM, Eddy County, NM

No cultural resources were recorded during this survey.

RECOMMENDATIONS: NMAS suggests clearance for PHILLIPS PETROLEUM COMPANY's Christopher "31" Federal Well No. 1 (Fig. 1).

TIME AND DATE OF INVESTIGATION: Mid- to late- afternoon, 27 October 1993.

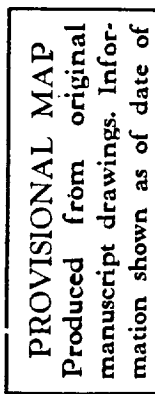


Fig. 1. USGS LOS MEDAÑOS QUADRANGLE, 7.5 Minute Series, 1985, Prov. Ed., showing PHILLIPS PETROLEUM COMPANY's proposed Christopher "31" Federal Well No. 1, 1100' FNL, 330' FWL, Section 31, T23S, R31E, NMPM, Eddy County, NM