Form 3160-3 (November 1983) (formerly 9-331C)

UNITED STATES Other Instruction Other Instruction Other Instruction Other Instruction

SUBMIT IN TRILLICATE®
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

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Operator			Lease		Well No.			
	S PETROLEUM CO			ton Ridge	7			
Unit Letter	Section	Township	Ronge	County				
F Actual Footage Loc	1 1	22-S	30-Е	Ed	dy			
•		1.	1000					
1980 Ground Level Elev.	Producing For		the and 1980	feet from the	West Itne			
3314'	Delaware	matton	Cabin Lake	(Delaware)	Dedicated Acrenge: 40 Acres			
	1 1:	. 1						
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli- 								
If answer in this form in No allows	No If an is "no," list the f necessary.)	nswer is "yes;" owners and trace	e-pooling. etc? type of consolidation t descriptions which h ntil all interests have	ave actually be	en consolidated. (Use reverse side of ted (by communitization, unitization, as, has been approved by the Commis-			
	D	С	В	Α	CERTIFICATION			
	1 198 E	7 F 649'	H	— — Н	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. I trame J. L. Maples Position Asst., Regulation & Proratio			
	642'-				Company PHILLIPS PETROLEUM COMPANY Data 5/21/90			
	L ! "	K	J	I	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.			
	M	N	0	P	April 2, 1990 Date Surveyed Richard B. Duniven Registered Professional Engineer and/or Land Surveyor			
					Pertificate No.			
330 440		in 2310 2640	2000 1000 1000	, , , , , , , , , , , , , , , , , , ,	4882			

SURFACE USE PLAN

Phillips Petroleum Company, <u>Livington Ridge</u> Lease, Well No. 7, 1980' FNL & 1980' FWL, Section 1, T-22-S, R-30-E, Eddy County, New Mexico. (Fed Lease No. 70335.)

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately <u>22 miles east of Carlsbad</u>, New Mexico. The following is a discussion of pertinent information concerning the possible effect which the proposed drilling well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and subcontractors will be aware of all items of this plan.

1.	<u>Existi</u>	ing	<u>Roads</u>	

Α.	None

2. Planned Access Roads

- Α. To run west to east to planned drillsite.
- В. Turnouts: None
- Drainage Design: New road will have center line to side line С. slope
- D. Culverts, Cuts and Fills: None
- <u>Surfacing Material</u>: Caliche well pad and roads. <u>Gates, Cattleguards, Fences</u>: <u>None</u> Ε.
- F.
- G. Proposed Road: The proposed road is centerline staked.
- Locations of Existing wells: None 3.
- 4. Locations of Tank Batteries, Production Facilities, Production <u>Gathering</u>, and <u>Service Lines</u>: The present tank battery is located -<u>Section 1, T-22-S, R-30-E</u> Flow line from Well No. 7 to run alongside proposed access roadway.
- 5. Water Supply Source: Hauled
- 6. Source of Construction Materials
 - Α. Caliche for surfacing the new road and well pads will be obtained from Federal pit from Section 11
 - Caliche pit is located on Federal pit from Section 11

7. Methods for Handling Waste Disposal

Will be put in separate waste pits and covered with minimum of 2' backfill. (See sketch.) If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. All produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted for appropriate approval.

Surface Use Plan - Livingston Ridge No. 7 Page 2

- 8. Ancillary Facilities: None
- 9. Well Site Layout: Attached sketch shows the relative location and dimensions of the well pad, mud pit, reserve pit, and trash pit. Location will be 250×250 .
- 10. Plans for Restoration of Surface: Pit will be backfilled and levelled as soon as practical to original condition. If well is productive, caliche pad will remain as well service pad. If dry hole, pads and access roads will be ripped per regulations. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 60 days from commencement.
- Other Information: 11.
 - Α. Terrain: <u>See Archaeological Survey</u>
 - В. Soil: See Archaeological Survey
 - С. Vegetation: See Archaeological Survey
 - D. Surface Use: Possible grazing
 - Ε. Ponds and Streams: None
 - Water Wells: None
 - Residences and Buildings: 2 miles west of drill site G.
 - Η. Arroyos, Canyons, etc.: None
 - Well Sign: Sign identifying and locating the well will be I. maintained at drill site with the spudding of the

or

- J. Archaeological Resources: See Archaeological Survey
- Operator's Representative: Field personnel who can be contacted concerning compliance of the "Surface Use Plan" is as follows:

Production and Drilling P. D. Appel 4001 Penbrook Street Odessa, Texas 79762 Phone: 915-367-1411

D. J. Fisher 1625 West Marland Hobbs. New Mexico 88240

Phone: 505-393-5121

13. 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 subcontractors in conformity with this plan and the terms and conditions under which it is approved.

> J. L. Maples. Assistant Regulation and Proration

(915) 367-1411

May 14, 1990 Date

PHILLIPS PETROLEUM COMPANY Livington Ridge Well No. 7 Eddy County, New Mexico

DRILLING PROGNOSIS

Location of Proposed Well: 1980' FNL & 1980' FWL, Section 1, T-22-S, R-30-E, Eddy County, New Mexico
Unprepared Ground Elevation: 3314'
The geologic name of the surface formation is <u>See Archaeological</u> <u>Survey</u>
Type of drilling tools will be <u>rotary</u> .
Proposed drilling depth is 7700'.
The estimated tops of important geologic markers are as follows:
Rustler 315' Brushy Canyon 5980' Salado 620' Bone Springs 7650' Delaware Mt. 3780' Cherry Canyon 4600'
The estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:
Oil: <u>Brushy Canyon</u> 5980'
The proposed casing program is as follows:
Surface String <u>13-3/8", 48#, set at 475'</u> Intermediate String <u>8-5/8", 24#, set at 3700'.</u> Production String <u>5-1/2", 14#, 15.5# set at 7700'.</u>
Cement Program: Surface String - Cement to surface with 650 sacks Class C cement.
Intermediate String - Cemented to surface with 1200 sacks Class C. Production String - Cement with 900 sacks C - estimated top of cement 3500 .

- 10. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are attached.
- 11. The proposed mud program is attached (see Drilling Specialties mud letter).
- 12. The testing, logging, and coring programs are as follows:

D.S.T.'s or cores None

- 13. Anticipate no abnormal pressures or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk H2S equipment will be used.
- 14. The anticipated starting date is immediately upon approval with duration of operations for approximately 30 days thereafter.
- 15. Water Supply: Hauled
- 16. Caliche for road and pad construction to be obtained from <u>Federal pit from Section 11</u>.

REGPRO: JMAPL: ridge7.dpr

PROPOSED MUD PROGRAM

LIVINGSTON RIDGE WELL NO. 7

ОЕРТН	MUD WEIGHT	VISCOSITY	FLUID LOSS	CL PPM	% SOLIDS	% SOLIDS ADDITIVES
Surf - 475'	8.3-9.0 ppg	28-36 sec/1000 cc	1	\$	ŧ	Native Solids
475' - 3700'	10.0 ppg	29-32 sec/1000 cc	ı	Saturated	l	Native Solids
3700' - 5700'	8.3-9.5 ppg	28-36 sec/1000 cc	ı	ı	ı	
5700' - 7700'	8.5-9.0 ppg	32-38 sec/1000 cc	20 cc or less	1	ı	Gel/Drispac Plus

Remarks: Use DBX dripped into flowline 10-15' upstream from lower end if extra settling of solids is desired while circulating the reserve.

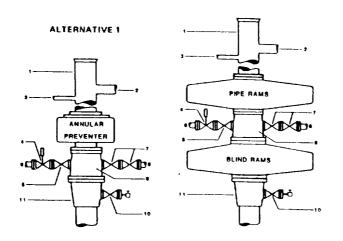
The Mud Engineer shall include on each test report the materials used for the previous 24 hr. period. Twice weekly mail copies of the test reports to:

A. C. Sewell 4001 Penbrook Odessa, Texas 79762 Send two copies of the Well Recap (Final Cost & Engineering Summaries) to A. C. Sewell at the above address.

regpro/jmapl/mudprog1

FIELD PRACTICES AND STANDARDS

ALTERNATIVE 2

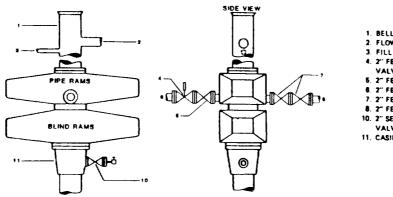


- 1. BELL NIPPLE
- 2. FLOW LINE
- 3. FILL-UP LINE
- 4. 2" FE PRESSURE OPERATED CHOKE LINE VALVE
- 5. 2" FE GATE VALVE 6. 2" FE CHOKE LINE TO MANIFOLD
- 7. 2" FE GATE VALVES 8. 2" FE KILL LINE
- 9. DRILLING SPOOL

 10. 2" SE OR FE GATE VALVE WITH NEEDLE
- 11. CASING HEAD HOUSING

NOTE. THE DRILLING SPOOL MAY BE LOCATED BELOW BOTH SETS OF RAMS IF A DOUBLE PREVENTER IS USED AND IT DOES NOT HAVE SUITABLE OUTLETS BETWEEN RAMS

Figure 7-9. Standard Hydraulic Blowout Preventer Assembly (2 M or 3 M Working Pressure) Alternative 1



- 1. BELL NIPPLE
- 2. FLOW LINE
- 3. FILL UP LINE
- 4. 2" FE PRESSURE-OPERATED CHOKE LINE VALVE

- 5. 2" FE GATE VALVE
 6. 2" FE CHOKE LINE TO MANIFOLD
 7. 2" FE GATE VALVES

- 8. 2" FE KILL LINE 10. 2" SE OR FE GATE VALVE WITH NEEDLE VALVE

11. CASING HEAD HOUSING

Figure 7-10. Standard Hydraulic Blowout Preventer Assembly (2 M or 3 M Working Pressure) Alternative 3 (without Drilling Spool)

Well Control 4 January/83

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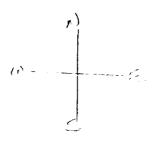


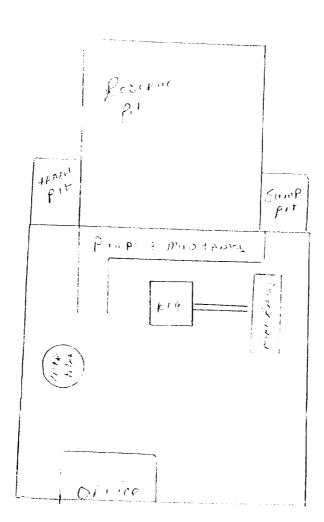
580 New Lord.

PHILLIPS PETROLEUM COMPANY

HOBBS, NEW MEXICO 88240 1625 WEST MARLAND

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PROPOSED MUD PROGRAM

LIVINGSTON RIDGE WELL NO. 7

_	5700' - 7700'	3700' - 5700'	475' - 3700'	Surf - 475'	DEPTH
	8.5-9.0 ppg	8.3-9.5 ppg	10.0 ppg	8.3-9.0 ppg	MUD WEIGHT
	32-38 sec/1000 cc	28-36 sec/1000 cc	29-32 sec/1000 cc	28-36 sec/1000 cc	VISCOSITY
	20 cc or less	t	ł	1	FLUID LOSS
-	ı	ı	Saturated	•	CL PPM
-	ı	ı	ı	1	% SOLIDS
	Gel/Drispac Plus		Native Solids	Native Solids	% SOLIDS ADDITIVES

Remarks: Use DBX dripped into flowline 10-15' upstream from lower end if extra settling of solids is desired while circulating the reserve.

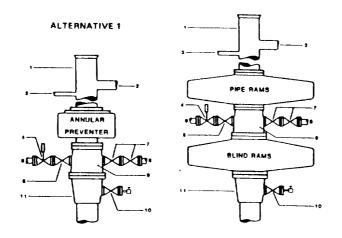
The Mud Engineer shall include on each test report the materials used for the previous 24 hr. period. Twice weekly mail copies of the test reports to:

A. C. Sewell 4001 Penbrook Odessa, Texas 79762

Send two copies of the Well Recap (Final Cost & Engineering Summaries) to A. C. Sewell at the above address.

FIELD PRACTICES AND STANDARDS

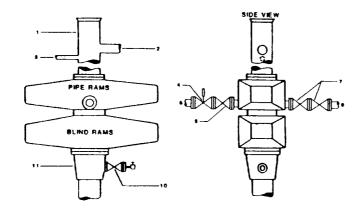
ALTERNATIVE 2



- 1. BELL NIPPLE
- 2. FLOW LINE
- 3. FILL UP LINE
- 4. 2" FE PRESSURE OPERATED CHOKE LINE
- 5. 2" FE GATE VALVE 6. 2" FE CHOKE LINE TO MANIFOLD
- 7. 2" FE GATE VALVES 8. 2" FE KILL LINE
- 9. DRILLING SPOOL
- 10. 2" SE OR FE GATE VALVE WITH NEEDLE VALVE
- 11. CASING HEAD HOUSING

NOTE: THE DRILLING SPOOL MAY BE LOCATED BELOW BOTH SETS OF RAMS IF A DOUBLE PREVENTER IS USED AND IT DOES NOT HAVE SUITABLE OUTLETS BETWEEN RAMS

Figure 7-9. Standard Hydraulic Blowout Preventer Assembly (2 M or 3 M Working Pressure) Alternative 1



- 1. BELL NIPPLE
- 2. FLOW LINE 3. FILL UP LINE
- 4. 2" FE PRESSURE-OPERATED CHOKE LINE
- VALVE
- 6. 2" FE GATE VALVE
 6. 2" FE CHOKE LINE TO MANIFOLD
 7. 2" FE GATE VALVES
 8. 2" FE KILL LINE

- 10. 2" SE OR FE GATE VALVE WITH NEEDLE
- VALVE 11. CASING HEAD HOUSING

Figure 7-10. Standard Hydraulic Blowout Preventer Assembly (2 M or 3 M Working Pressure) Alternative 3 (without Drilling Spool)

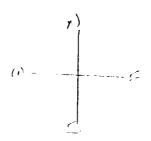
Well Control 4 January/83

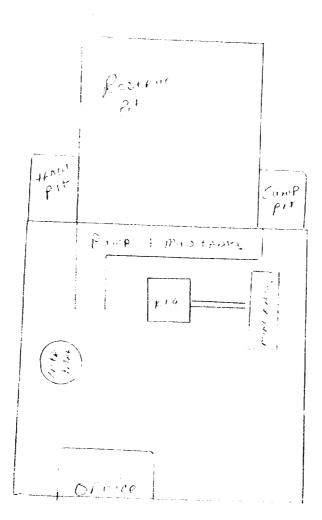


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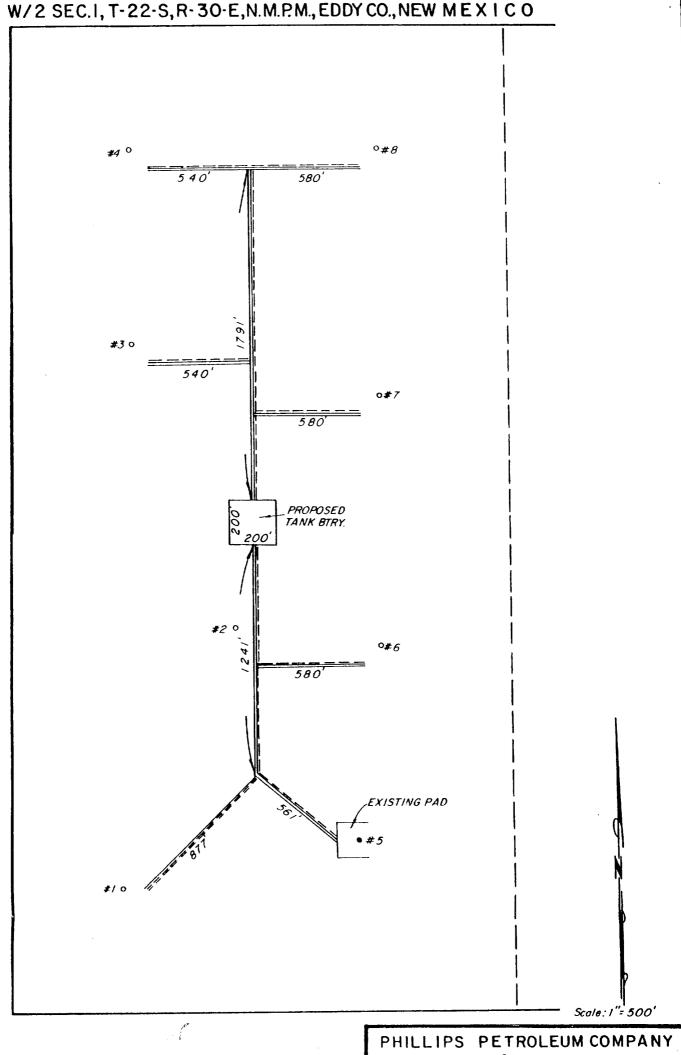
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582' New 100's



-LEGEND-

O # / PROPOSED WELL

PROPOSED LSE. ROAD

Odessa, Texas

PROPOSED LEASE EXPANSION IN: W/2 Sec.I,T-22-South, R-30-East, N. M. P. M. Eddy County, New Mexico

RICHARD B. DUNIVEN & CO. INC.

REGISTERED PUBLIC SURVEYORS
P. O. Box 80276 APRIL 3,1990 915-687-0231

Midland Taxas 79709

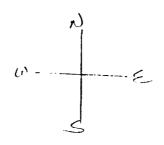


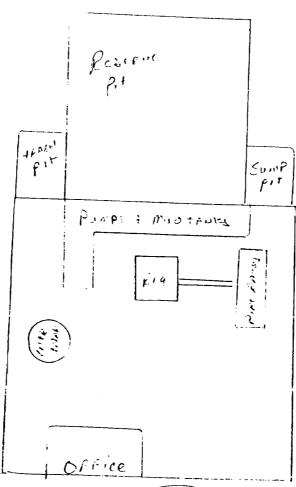
580' New Food.

PHILLIPS PETROLEUM COMPANY

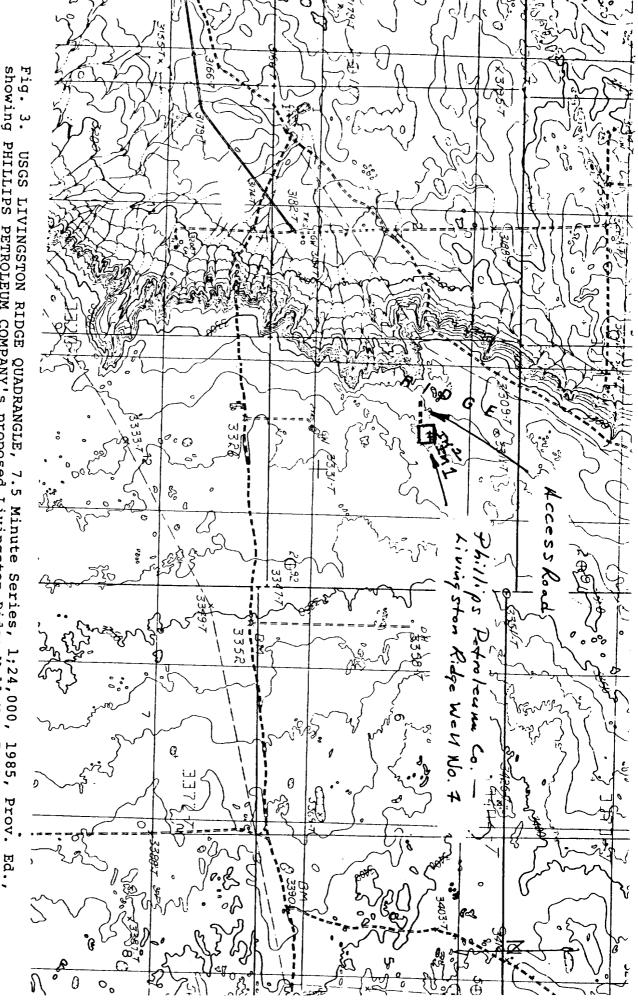
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Livingston Ridge # 7



showing PHILLIPS PETROLEUM COMPANY's proposed Livingston Ridge Well No. 1980' FWL, and access road, Section 1, T22S, R30E, NMPM, Eddy County, NM 7, 1980' FNL, 1985, Prov. Ed.,