2. 3. 1 P	DEPARTMEN BUREAU OF	T OF THE I	NT N	RIMP Oil	Cons.	DIV-	MIT 1 (4730
APPL	ICATION FOR F			1301 M	- Grar	nd Av	CO. L. COLAN, ALLOTTER OR TRIBE NAME
a. TYPE OF WORK	DECEIV	ED			ia, Ni√		10
	ILL 🖾 RÉCEIV	DEEPEN			•		T. UNIT AGREEMENT NAME
	NOV 17 7	004	8	INGLE X	MULTIPI		\$
. NAME OF OPERATOR	OCD-ART	ESIA	2	ONE LX	ZONE		SUNDANCE FEDERAL # 26
POGO PRODUCII	NG COMPANY	(RICHARD WR	IGHT	432-685-	8140)		9. AT WELLING.
ADDRESS AND TELEPHONE NO.							30-015-33724
P.O. BOX 1034	40 MIDLAND, T	EXAS 79702-	7340	(432-	585-8100))	10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (F At surface	Report location clearly and	i in accordance wi	th any	State requirem	ents.*)		SAND DUNES DELAWARE WES
	0' FEL SEC. 4	T24S-R31E	EDDY	CO. NM			11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
At proposed prod. 201		1			OTASH		
(D. (20 . V.)	AND DIRECTION FROM NEW				UIASH		SECTION 4 T24S-R31E
		• •		•			12. COUNTY OR PARISH 13. STATE
Approximately D. DISTANCE FROM PROP	y 30 miles East	of Carlsba		Mexico		12	EDDY CO. NEW MEX.
LOCATION TO NEARES PROPERTY OR LEASE	T		10	J. OF ACRES IS	LEASE		OF ACRES ASSIGNED HIS WELL
(Also to nearest drl S. DISTANCE FROM PROD	g. unit line, if any)	660'	10 -	600		90	40
TO NEAREST WELL, I OR APPLIED FOR, ON TH	RILLING, COMPLETED,	1220!	19. 19	8400'		20. ROTA	ARV
	ether DF, RT, GR, etc.)	1320'	<u> </u>			KOI	22. APPROX. DATE WORK WILL START*
		3421' GR					WHEN APPROVED
3.							
		PROPOSED CAS	ING AN	CEMENTINO	PROGRAM		
SIZE OF ROLE	GRADE, SIZE OF CASING	WEIGHT PER F	001	SETTING	DEPTH		QUANTITY OF CEMENT
25"	Conductor	NA NA		40'		•	t to surface W/Redi-mix
17½"	H-40 13 3/8 WT	NESS48		650'			x. circulate to surface
11'' 7 7/8''	$0-22 \times 2/9$	TNESS2	· · · · · · · · · · · · · · · · · · ·	4250'		1500	5X
1 1/0	N-80,J-55 4½"	11.6		8400'		1800	Sx. in 3 stages " '
2. Drill 17½' with 800 S surface. 3. Drill 11" with 1500 4. Drill 7 7, 4½" 11.6# Cement in of Class ' + additive circulate CARLSBAD CON ABOVE SPACE DESCRIB	hole to 650'. Ex. of Class "C' hole to 4250'. Sx. of Class "C' 8" hole to 8400 N-80 LT&C, 6000 3 stages with I 'C" cement + add es, cement 3rd s cement to surfa NTROLLED WATER B E PROPOSED PROGRAM: If inent data on subsurface logation	Run and set cement + Run and set C' cement + O'. Run and O' of 4½" 1 OV Tools at ditives, Central Exage with E	t 650 2% Ca t 425 addi set 1.6# 6200 nent 500 S	' of 13 (C1, + ½# O' if 8 5 tives, c: 8400' of J-55 LT&C ' & 3800' 2nd stage x. of Cla	5/8" h-4 Flocele 5/8" 32% irculate 4½" cas c, 1000' '±. Ceme e with 7 APPRO GENER AND S ATTAC	J-55 cemer sing as of 4! 550 Sx Light PVAL RPECIA	s follows: 1400' of 2" 11.6# N-80 LT&C. t stage with 550 Sx of Class "C" cement cement + additives, SUBJECT TO EQUIREMENTS L STIPULATIONS
SIGNED ()	ob. Lell	Will II	LE	Agent			06/26/04
(This space for Fodo	ral or State office use)						
(Inix space for rede	or state oute use)						
PERMIT NO.				APPROVAL DATE			
Application approval does to CONDITIONS OF APPROVAL		plicant holds legal or ec	juitable tit	le to those rights i	n the subject le	ase which w	ould entitle the applicant to conduct operations then
/s/ Lin	ıda S. C. Rundel	1		STATE	DIREC	TOR	8 NOV 2004

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 For drilling and production facilities, submiappropriate NMOCD District Office.
For downstream facilities, submit to Santa Foffice.

Form C-

March 12.

Santa Fe, NM 87505

Pit or Below-Grad	e Tank Registration or Clo	sure			
Is pit or below-grade tank	covered by a "general plan"? Yes 🗌	No 🗓	ank []		
	below-grade tank 🖾 Closure of a pit or below				
Operator: Pogo Producing Company 432-68 Telephone:	e-mail address: wrightc@	pogot	producing.	com	
Address: P. O. Box 10340, Midland, TX 79702	-7340				
Facility or well name: Sundance Fed #26 API #:		T_24	L_R31		
County: Eddy Latitude 32 15 03.4N Longitude 103	46 34,9W NAD: 1927 1983 Sur	face Owr	ner Federal 🔼 Sta	te 🔲 Privat	te 🔲 Indian
Pit	Below-grade tank			730	22
Type: Drilling (Production Disposal D	Volume:bbl Type of fluid:		/	15678	9 70 777
Workover Emergency	Construction material:		12	· •	4
Lined 🖒 Unlined 🗌	Double-walled, with leak detection? Yes [explain why dot	′ > - (2004
Liner type: Synthetic M Thickness 12 mil Clay Volume	books wanted, with teak detection. Test L		्रि जि	. 4131	
16000 вы			8	NOTE RECE	IVEU ARTESIA
	Less than 50 feet		(20 points)	_0co.	<u> </u>
Depth to ground water (vertical distance from bottom of pit to seasonal high	50 feet or more, but less than 100 feet		(10 points)	د	46
water elevation of ground water.)	100 feet or more	х	(0 points)	St 5650	10237,16
Wellhead protection area: (Less than 200 feet from a private domestic	Yes		(20 points)		
water source, or less than 1000 feet from all other water sources.)	No	χ	(0 points)	0	
Distance to surface water. (horizontal distance to all waterde plane	Less than 200 feet		(20 points)		
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet		(10 points)		
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	X	(0 points)	0	
	Ranking Score (Total Points)		()	
If this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks. (2	2) Indicate	e disposal location	:	<u> </u>
onsite O offsite I If offsite, name of facility	(3) Attach a general description of reme	dial actio	n taken including	remediation	start date and
end date. (4) Groundwater encountered: No [] Yes [] If yes, show depth	below ground surfaceft. and :	attach sar	mple results. (5) A	ttach soil sa	imple results
and a diagram of sample locations and excavations.					
I hereby certify that the information above is true and complete to the best of been/will be constructed or closed according to NMOCD guidelines KX at Date: 07/02/04 Printed Name/Title Cathy Wright, Sr Open Tech	my knowledge and belief. I further certify to a general permit , or an (attached) altern Signature	that the a	ibove-described p D-approved plan	oit or below	grade tank t
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations.	relieve the operator of liability should the cor				
Approval: Date: 1/9/04 Printed Name/Title Mike Bristeley Chapliance Officer	Signature Mike Bould				

		Geographic Area:	
Site	Information 🔀	New Mexico	go

Site Map for New Mexico

USGS 321312103395601 24S.32E.10.344333

Available data for this site

Station site map <u>•</u> GO

Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°13'12", Longitude 103°39'56" NAD27 Gage datum 3,589.00 feet above sea level NGVD29 Location of the site in New Mexico. Site map. USGS Station 32131210339560 USGS Station 32131210339560 ZOOM IN 2X, 4X, 6X, 8X, or ZOOM OUT 2X, 4X. 6X. 8X Maps are generated by US Census Bureau TIGER Mapping Service.

Questions about data <u>gs-w-nm_NWISWeb_Data_Inquiries@usgs.gov</u>
Feedback on this websitegs-w-nm_NWISWeb_Maintainer@usgs.gov
NWIS Site Inventory for New Mexico: Site Map
http://waterdata.usgs.gov/nm/nwis/nwismap?

Top Explanation of terms

Retrieved on 2004-06-30 16:30:21 EDT
Department of the Interior, U.S. Geological Survey
USGS Water Resources of New Mexico
Privacy Statement || Disclaimer || Accessibility
0.92 0.7 nadww01

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 321312103395601

Save file of selected sites to local disk for future upload

USGS 321312103395601 24S.32E.10.344333

Available data for this site

Ground-water: Levels

GO

7

Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°13'12", Longitude 103°39'56" NAD27 Gage datum 3,589.00 feet above sea level NGVD29 Tab-separated data The depth of the well is 60 feet below land surface. Graph of data This well is completed in ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE Reselect period DEPOSITS (110AVMB) USGS 321312103395601 245,32E,10,344333 surface 3570 20 3565

DRTES: 04/13/1950 to 06/30/2004 23:59

Breaks in the plot represent a gap of at least one calendar year between two consecutive points. Download a presentation-quality graph

Questions about data <u>gs-w-nm_NWISWeb_Data_Inquiries@usgs.gov</u>
Feedback on this websitegs-w-nm_NWISWeb_Maintainer@usgs.gov
Ground water for New Mexico: Water Levels
http://waterdata.usgs.gov/nm/nwis/gwlevels?

<u>Top</u> Explanation of terms





#26

WORLD DISTANCE CALCULATOR

Version 1.0 dated 30 October 2001

Click here to download a version of this page suitable for offline use

(operation instructions available at the end of this page)

Input = Lat/Longs to the same Geodetic Datum, preferably WGS84

Lat 1		Long :	1
32:13:12	N	103:39:56	W 🔻
Lat 2		Long 2	2
32:15:03.4	N	103:46:34.9	W

Distance Units: Statute Miles

Earth model: FAI sphere 🔀

COMPUTE: RESET

Output = true courses, then shortest distance on the surface of the selected world model

Course 1-2 (deg)	288.3005701864008
Course 2-1 (deg)	108.24146648133876
Shortest distance	6.819683432476789

OPERATION:

- 1. For the calculator to operate, Javascript must be enabled. With MS Windows 98 or later and MS Internet Explorer, Javascript is normally enabled by default. For Netscape Navigator, see Options/ Network Preferences/ Languages, for Netscape Communicator see Edit/ Preferences/ Advanced.
- 2. Read the operating instructions below and the notes at the end. Scroll the display so that all of the boxes are on screen with the Lat/Long boxes at the top and the output boxes towards the bottom of the screen. You are now ready to make calculations.
- 3. Enter Latitude and Longitude for the points at the beginning and

FAI Web Site Directions :
Air sports:
Technical Commissions:
M
Other sections of the Web Site:

events.fai.org

The home of Air Sport Competition Information. The FAI Sporting Calendar and results of all major FAI Championships are available at this address.

Communication Links

Receive automatically <u>FAI's News</u> <u>releases</u> and other information such as world record notifications. We have a number of mailing lists to which <u>you can freely subscribe</u>.

Our Discussion Board at board.fai.org gives you the opportunity to publicly discuss issues relating to air sports.

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First, Artesia, NM 88210

DISTRICT IV

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

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

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION 2040 South Pacheco

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Code Pool Name		
	53815	SAND DUNES DELAWARE-WEST		
Property Code		Well Number		
	SUI	NDANCE FEDERAL	26	
OGRID No.	Operator Name Elevation			
17891	POGO PRODUCING COMPANY 3421'			

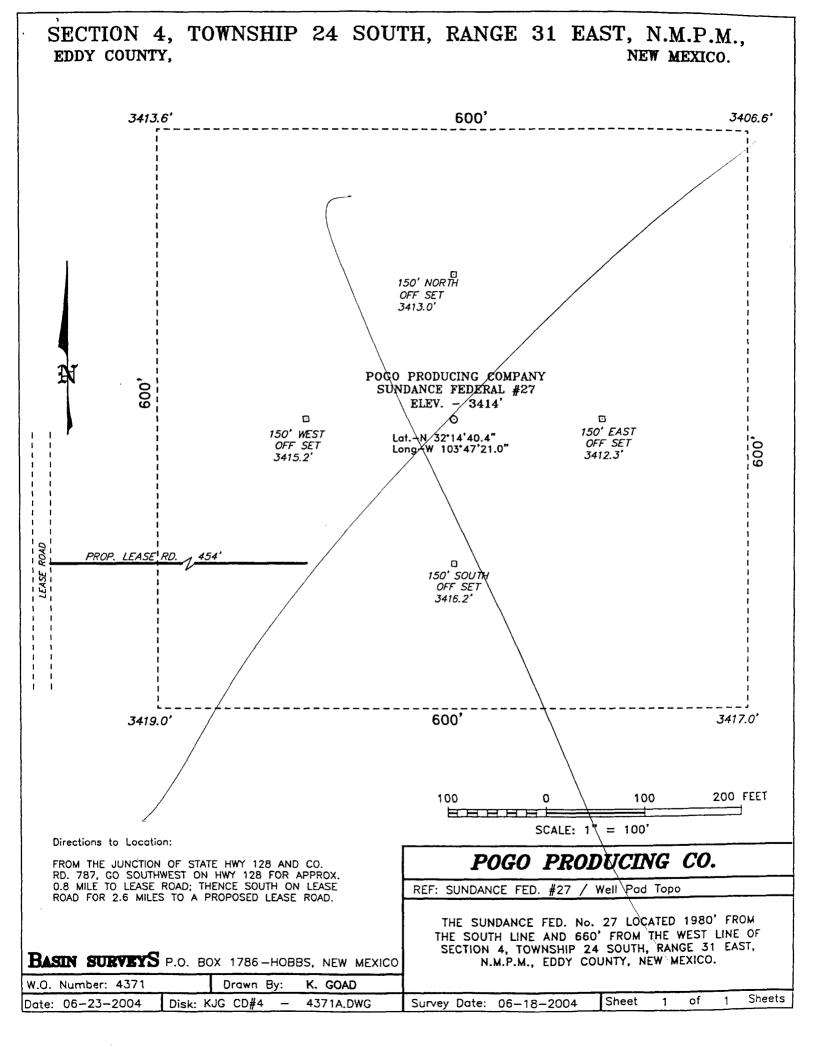
Surface Location

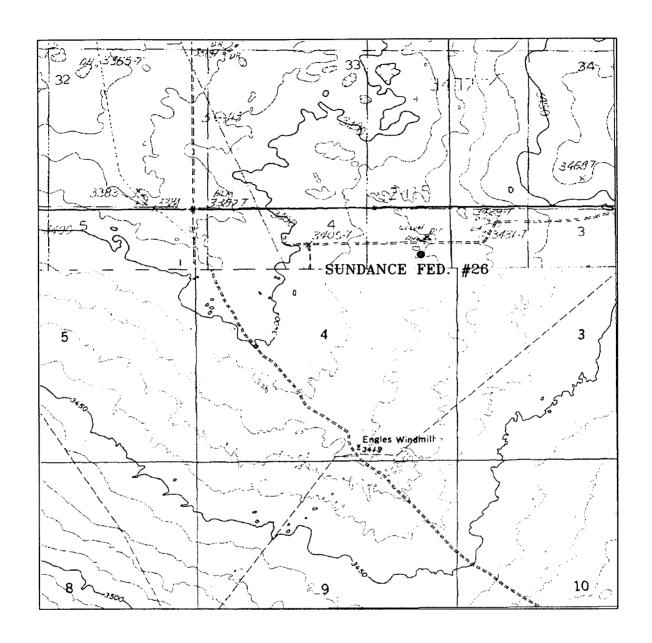
-	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	LOT 1	4	24 S	31 E		990	NORTH	660	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	or Infill Co	nsolidation (Code Or	der No.				l
40									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED





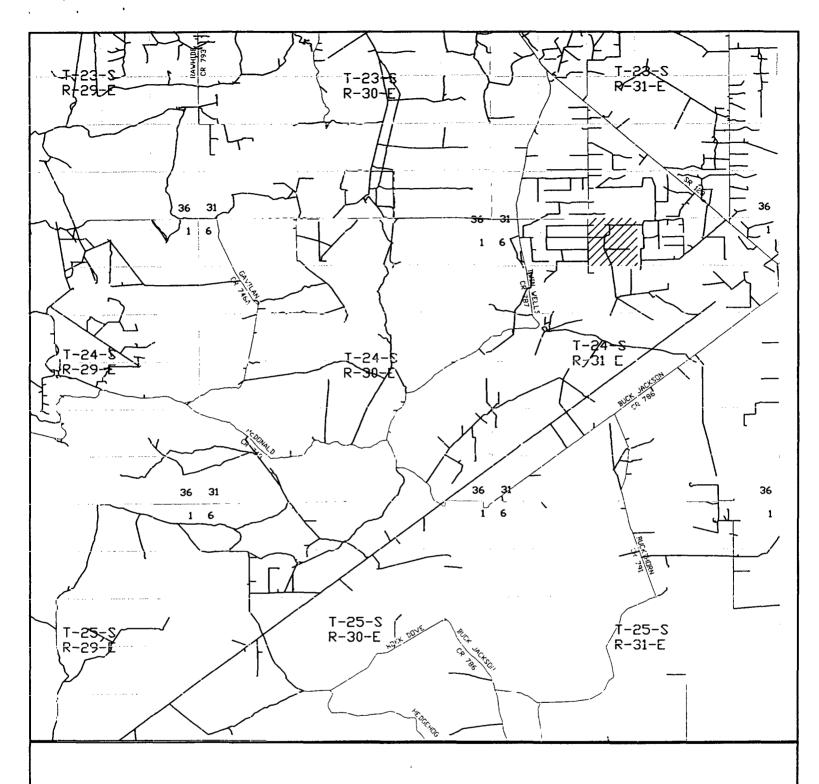
SUNDANCE FEDERAL #26 Located at 990' FNL and 660' FEL Section 4, Township 24 South, Range 31 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com

W.O. Number:	4370AA — KJG CD#5
Survey Date:	06-18-2004
Scale: 1" = 2	000'
Date: 06-23-	-2004

POGO PRODUCING COMPANY



SUNDANCE FEDERAL #26 Located at 990' FNL and 660' FEL Section 4, Township 24 South, Range 31 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com

W.O. Number:	4370AA - KJG CD#5
Survey Date:	06-18-2004
Scale: 1" = 2	MILES
Date: 06-23-	-2004

POGO PRODUCING COMPANY

APPLICATION TO DRILL

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 26 UNIT "A" SECTION 4 T24S-R31E EDDY CO. NM

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration.

- 1. <u>Location</u>: 990' FNL & 660' FEL SEC. 4 T24S-R31E EDDY CO. NM
- 2. Elevation above Sea Level: 3421' GR.
- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.
- 4. <u>Drilling tools and associated equipment:</u> Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.
- 5. Proposed drilling depth: 8400'
- 6. Estimated tops of geological markers:

Rustler Anhydrite	675 '	Cherry Canyon	5200'
Basal Anhydrite	4055 '	Brushy Canyon	6440'
Delaware Lime	4280 '	Bone Spring	8140'
Bell Canyon	4315'	Upper Bone Spring Sd.	8200'

7. Possible mineral bearing formations:

Brushy Canyon

Oil

Bone Spring

Oil

8. Casing program:

Hole	size	Interval	OD of casing	Weight	Thread	Collar	Grade
25"		0-40'	20"	NA	NA	NA	Conductor
17½"		0-650'	13 3/8"	48#	8-R	ST&C	H-40
11"		0-4250'	8 5/8"	32#	8-R	ST&C	J-55
7 7/	8''	0-8400*	'4½"'	11.6#	8-R	LT&C	J-55 N-80

APPLICATION TO DRILL

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 26 UNIT "A" SECTION 4 T24S-R31E EDDY CO. NM

9. CEMENTING & CASING SETTING DEPTHS:

20"	Conductor	Set 40' of 20" conductor and cement to surface with Redi-mix.
13 3/8"	Surface	Set 650' of 13 3/8" 48# H-40 ST&C casing. Cement with 800 Sx. of Class "C" cement + 2% CaCl, + $\frac{1}{2}$ # Flocele/Sx. circulate cement to surface.
8 5/8"	Intermediate	Set 4250' of 8 $5/8$ " $32\#$ J-55 ST&C casing. Cement with 1500 Sx. of Class "C" cement + additives, circulate cement to surface.
4½"	Production	Set 8400' of $4\frac{1}{2}$ " 11.6# casing as follows: 1400' of $4\frac{1}{2}$ " 11.6# N-80 LT&C, 6000' of $4\frac{1}{2}$ " 11.6# J-55 LT&C, 1000' of $4\frac{1}{2}$ " 11.6# N-80 LT&C. Cement in 3 stages,DV Tools at 6200'±, & 3800'±. Cement 1st stage with 550 Sx. of Class "C" + additives, Cement 2nd stage with 750 Sx. of Class "C" cement + additives, Cement 3rd stage with 500 Sx. of Class "C" Light circulate to surface.

-10.PRESSURE CONTROL EQUIPMENT:

3000 See Exhibit E-1

Exhibit "E" shows a 2000 PSI working pressure B.O.P. consisting of a stripper head instead of an annular preventor, blind rams, and pipe rams. This B.O.P. stack is being used because of substructure height limitations of the drilling rig being used to drill this well. Pressures encountered while drilling are not expected to exceed 1700 PSI at total depth, Pogo requests permission to 3rd party test of the B.O.P. after setting the intermediate casing at 4250'. The B.O.P. will be tested according to API specifications. Exhibit "E-1" shows a manually operated choke manifold as no remote B.O.P. equipment will be necessary.

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD	
40-650'	8.4-8.7	29-32	NC	Fresh water spud mud use paper to control seepage	
650-4250'	10.0-10.2	29–38	NC	Brine water use paper to control seepage and high viscosity sweeps to clean hole.	
4250-8400'	8.4-8.7	29-40	NC*	Fresh water mud use high viscosity sweeps to clean hole.	

^{*} Water loss may be required in order to run open hole logs, DST's and casing, if required go to a Polymer mud system.

Sufficient mud materials to maintain mud properties, lost circulation, increased weight requirements, will be kept at the well site at all times. In order to run logs, casing, and DST's the viscosity and water loss may have to be altered. These mud materials will be on location.

APPLICATION TO DRILL

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 26 UNIT "A" SECTION 4 T24S-R31E EDDY_CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: If two runs are necessary: run dual laterolog, SNP, LDT, Gamma Ray, Caliper from 4250' to 650', Gamma Ray-Neutron from 650' to surface. Run #2 Run dual Induction, SNP, LDT, Gamma Ray, Caliper from TD back to 8 5/8" casing shoe.
- B. No cores or DST's are planned at this time, a mud logger may be placed on hole at 4250' and remain on hole to TD.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of $\rm H^2S$ in this area. If $\rm H^2S$ is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4250 PSI, and Estimated BHT 165°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take $\frac{28}{2}$ days. If production casing is run then an additional $\frac{30}{2}$ days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The <u>Delaware</u> formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as an oil well.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazzards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
- 2. H₂S Detection and Alarm Systems
 - A. H₂S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
 - C. There should be a windsock at entrance to location.
- 4. Condition Flags and Signs
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well control equipment
 - A. See exhibit "E" & "E-1"
- 6. Communication
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalk board is inappropriate.
 - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
 - A. Exhausts will be watered.
 - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
 - C. If the location is near to a dwelling a closed DST will be performed.

- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If H_2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H_2S scavengers if necessary.

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 26 UNIT "A" SECTION 4 T24S-R31E EDDY CO. NM

- 1. EXISTING ROADS: Area maps, Exhibit "B" is a reproduction of a County General Hi-way Map. Exhibit "C" is a reproduction of a USGS Topographic map, showing existing and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
 - A. Exhibit "A" shows the location of the proposed well site as staked.
 - B. From Hobbs New Mexico take U.S. Hi-way 62-180 West toward Carlsbad go 40± miles to the WIPP road. Turn Left go 13 miles South to CR 802, turn Right follow CR-802 4.2 miles to State Hi-way 128, turn Left go 3.4 miles, turn Right go 2.8 miles, turn Left (East) go .4- miles bear North go .25- miles turn Right (East go .45 miles to location on the South side of road.
 - C. Flowlines and Powerlines will be constructed along lease roads or on existing R-O-W's, as shown on Exhibits "C" & "F".
- 2. PLANNED ACCESS ROADS: No new rosds will be required.
 - A. The access road will be crowned and ditched to a 12' wide traveled surface with a 40' Right-of-Way.
 - B. Gradient on all roads will be less than 5% if possible.
 - C. Turn-outs will be constructed where necessary.
 - D. If needed the roads will be surfaced to the BLM requirements with material obtained from from a local source.
 - E. Center line for the new access road will be flagged.
 - F. The road will be constructed to utilize low water crossings where drainage currently exist, and Culverts will be installed where necessary.
- 3. EXHIBIT "A-1" SHOWS WELLS AND DRY HOLES WITHIN A 1 MILE RAIDUS.
 - A. Water wells One located approximately .8 miles South of location.
 - B. Disposal wells None known
 - C. Drilling wells None known
 - D. Producing wells As shown on Exhibit "A-1"
 - E. Abandoned wells As shown on Exhibit "A-1"

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 26 UNIT "A" SECTION 4 T24S-R31E EDDY CO. NM

4. If on completion this well is a producer the operator will lay pipelines and construct powerlines along existing road R-O-W's or other existing R-O-W's.

Possible routes of pipelines, flowlines and powerlines are shown on Exhibit "F".

5. LOCATION AND TYPE OF WATER SUPPLY:

Water will be purchased locally from a commercial source and trucked over the access roads or piped to location in flexible lines laid on top of the ground.

6. SOURCE OF CONSTRUCTION MATERIAL:

If possible construction material will be obtained from the excavation of drill site, if additional material is needed it will be obtained from a local source and transported over the access roads as shown on Exhibit "C".

7. METHODS OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in a approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by the supplier, including broken sacks.
- D. Waste water from living quaters will be drained into holes with a minium of 10'. These holes will be covered during drilling and will be back filled when the well is completed. A Porto-John will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken out for furthed drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approve disposal site. Later pips will be broken out to speed drying. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in storage tanks and sold.

8. ANCILLARY FACILITIES:

A. No camps or air strips will be constructed on location.

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 26 UNIT "A" SECTION 4 T24S-R31E EDDY CO. NM

9. WELL SITE LAYOUT

- A. Exhibit "D" shows the proposed well site layout.
- B. This exhibit indicated proposed location of reserve and sump pits and living facilities.
- C. Mud pits in the active circulating system will be steel pits & the reserve pit is proposed to be unlined unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
- D. If needed, the reserve pit is to be lined with polyethelene. The pit liner will be 6 mils thick. Pit liner will extend a minimum 2'00" over the reserve pits dikes where the liner will be anchored down.
- E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

10. PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be contoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 26 UNIT "A" SECTION 4 T24S-R31E EDDY CO. NM

11. OTHER INFORMATION:

- A. Topography consists of sand dunes with a slight dip to the West. Deep sandy soil supports shinnery oak, native grasses, and an occasional mesquite tree.
- B. Surface is owned by the U.S. Government and is administered by the Bureau of Land Management. The surface is used for grazing livestock and the production of oil and gas.
- C. Archaeological survey has been completed and is on file in the Carlsbad Field Office.
- D. There are no dwellings in the near vicinity of this location.

12. OPERATORS REPRESENTIVES:

Before construction:

TIERRA EXPLORATION, INC P.O. BOX 2188 HOBBS, NEW MEXICO 88241 OFFICE Ph. 505-391-8503 JOE T. JANICA

During and after construction:

POGO PRODUCING COMPANY
P.O. BOX 10340
MIDLAND, TEXAS 79702-7340
OFFICE Ph. 915-685-8100
Mr. RICHARD WRIGHT 915-685-8140

13. CERTIFICATION: I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access roads, and that I am fimiliar with the conditions which currently 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 POGO PRODUCING COMPANY it's contractors/subcontractors is in compformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false report.

NAME

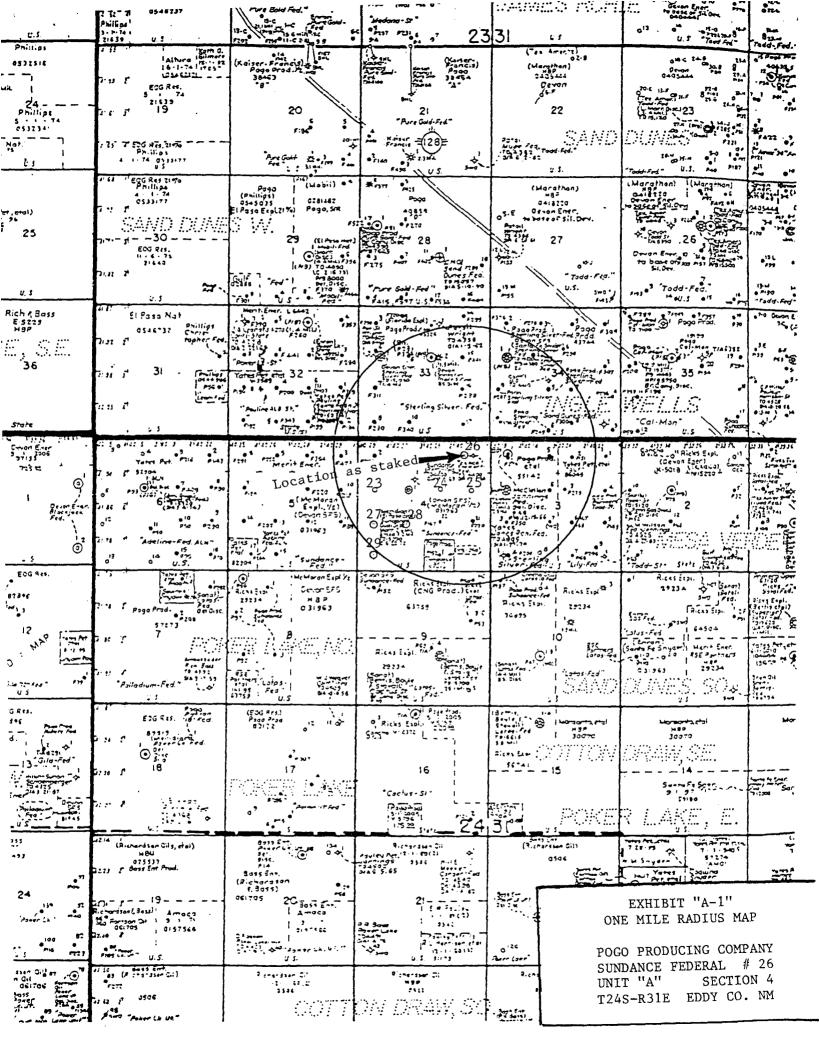
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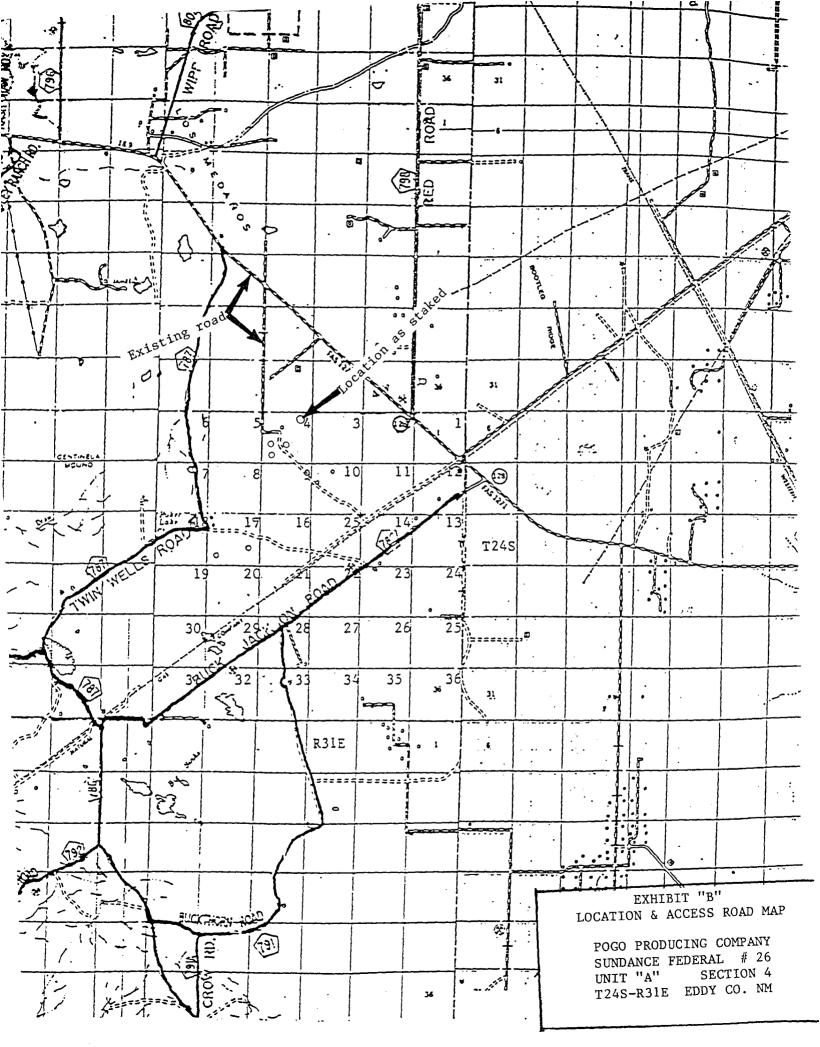
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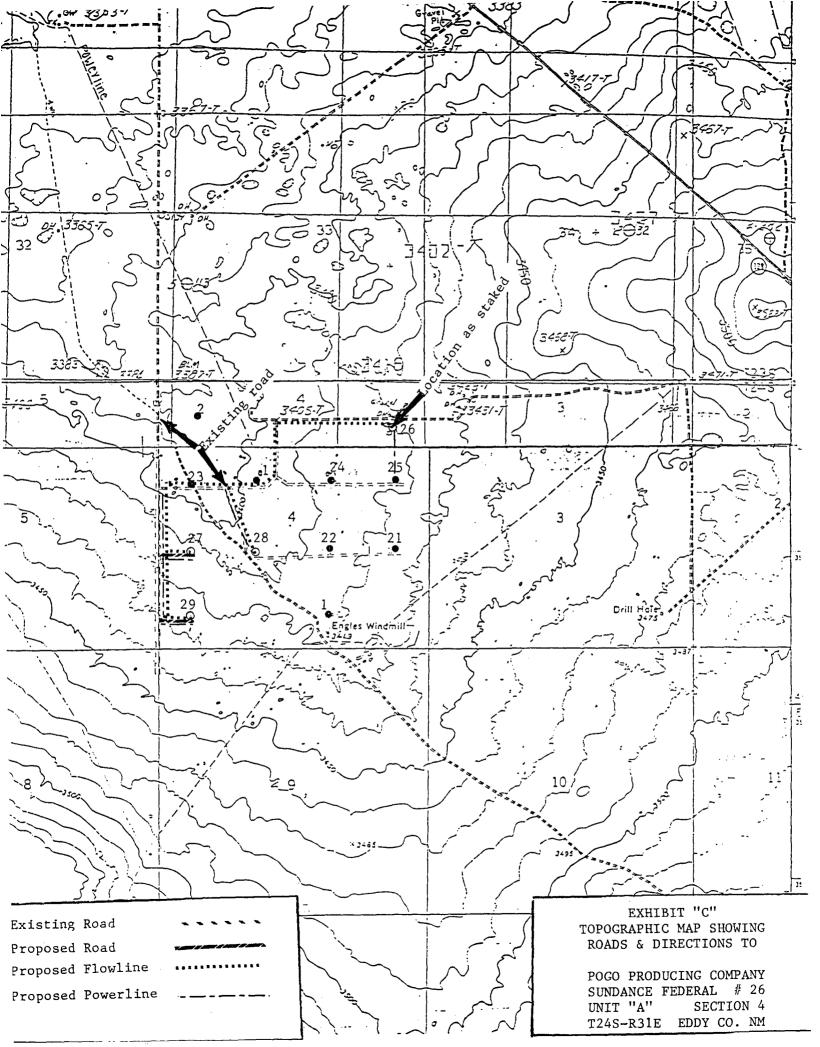
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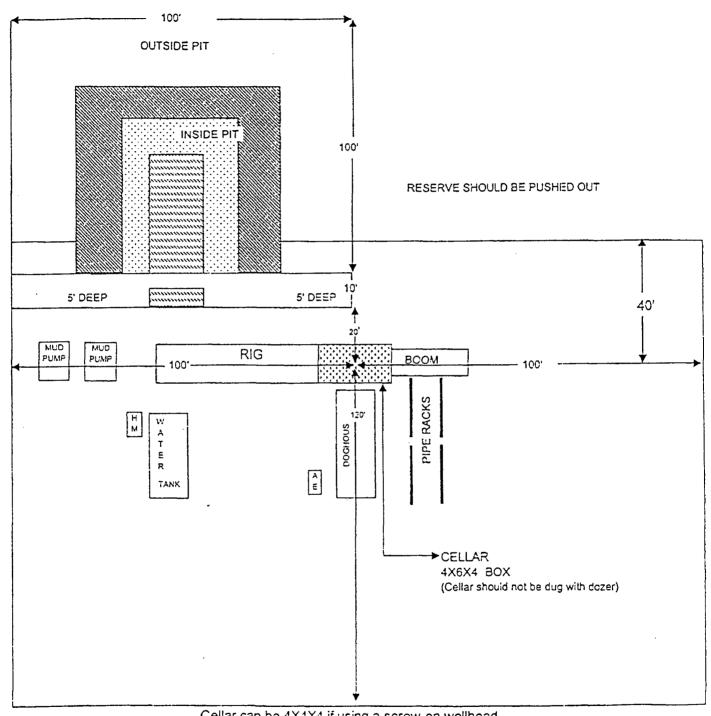
Agent







LOCATION SPECIFICATIONS AND RIG LAYOUT FOR EARTH PITS



Cellar can be 4X4X4 if using a screw-on wellhead Working Pits dug 5' below ground level

Location Specs

EXHIBIT "D"
RIG LAY OUT PLAT

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 26 UNIT "A" SECTION 4 T24S-R31E EDDY CO. NM

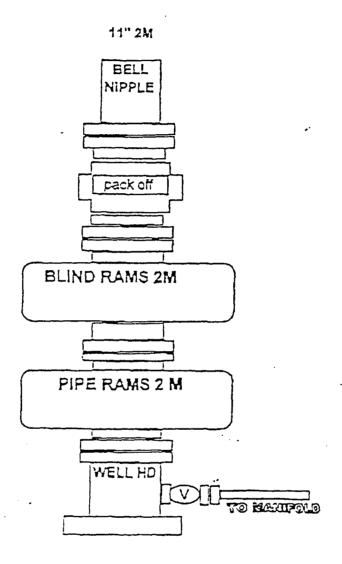


EXHIBIT "E"
SKETCH OF B.O.P. TO BE USED ON

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 26 UNIT "A" SECTION 4 T24S-R31E EDDY CO. NM

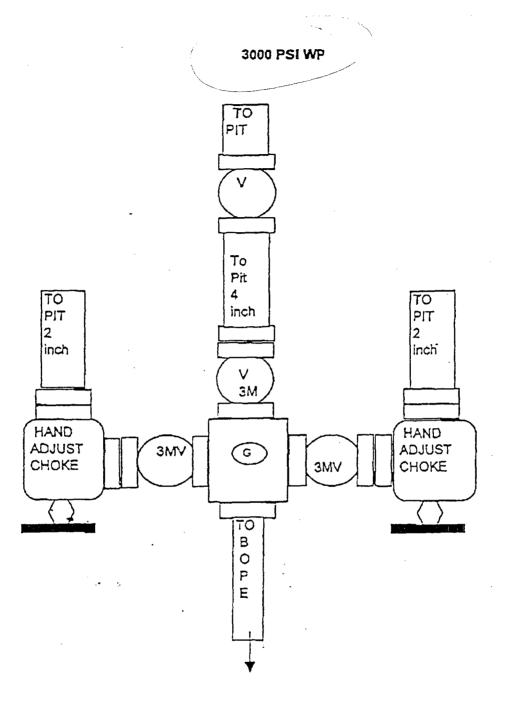


EXHIBIT "E-1"
SKETCH OF CHOKE MANIFOLD

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 26 UNIT "A" SECTION 4 T24S-R31E EDDY CO. NM

A В С D 2 Location as staked F Ε 25 24 Ι J L 22 P 0 \mathbf{M}

EXISTING	ROAD	****
PROPOSED	ROAD	
PROPOSED	FLOWLINE	**********
PROPOSED	POWERLINE	

EXHIBIT "F"
POSSIBLE ROUTES OF
FLOWLINES & POWERLINES

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 26 UNIT "A" SECTION 4 T24S-R31E EDDY CO. NM

SECTION 4, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY. NEW MEXICO. 3421.2' 600' 3418.4" LEASE ROAD 150' NORTH OFF SET 3420.5 POGO PRODUCING COMPANY SUNDANCE FEDERAL #26 ELEV. - 3421' 0 ø ⊡ 150' WEST OFF SET 150' EAST Lat.-N 32*15'03.4" OFF SET Long-W 103'46'34.9" 3421.2 3418.6' 150' SOUTH OFF SET 3419.4 FICE 600' 3415.1 100 100 200 FEET SCALE: 1" = 100' Directions to Location: POGO PRODUCING CO. REF: SUNDANCE FED. #26 / Well Pad Topo

FROM THE JUNCTION OF STATE HWY 128 AND CO. RD. 787, GO SOUTHWEST ON HWY 128 FOR APPROX. 0.8 MILE TO LEASE ROAD; THENCE SOUTH ON LEASE ROAD FOR 2.5 MILES; THENCE EASTERLY ALONG LEASE ROAD FOR APPROX. 1.0 MILES TO LOCATION.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

Disk: KJG CD#4

4370A.DWG

W.O. Number: 4370 K. GOAD Drawn By:

Date: 06-23-2004

Sheet Sheets Survey Date: 06-18-2004

THE SUNDANCE FED. No. 26 LOCATED 990' FROM THE NORTH LINE AND 660' FROM THE EAST LINE OF SECTION 4, TOWNSHIP 24 SOUTH, RANGE 31 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.