SUBMIT IN TRIPLICATE.

(Other instructions on reverse side) 30.039-21618

Form approved. Budget Bureau No. 42-R1425.

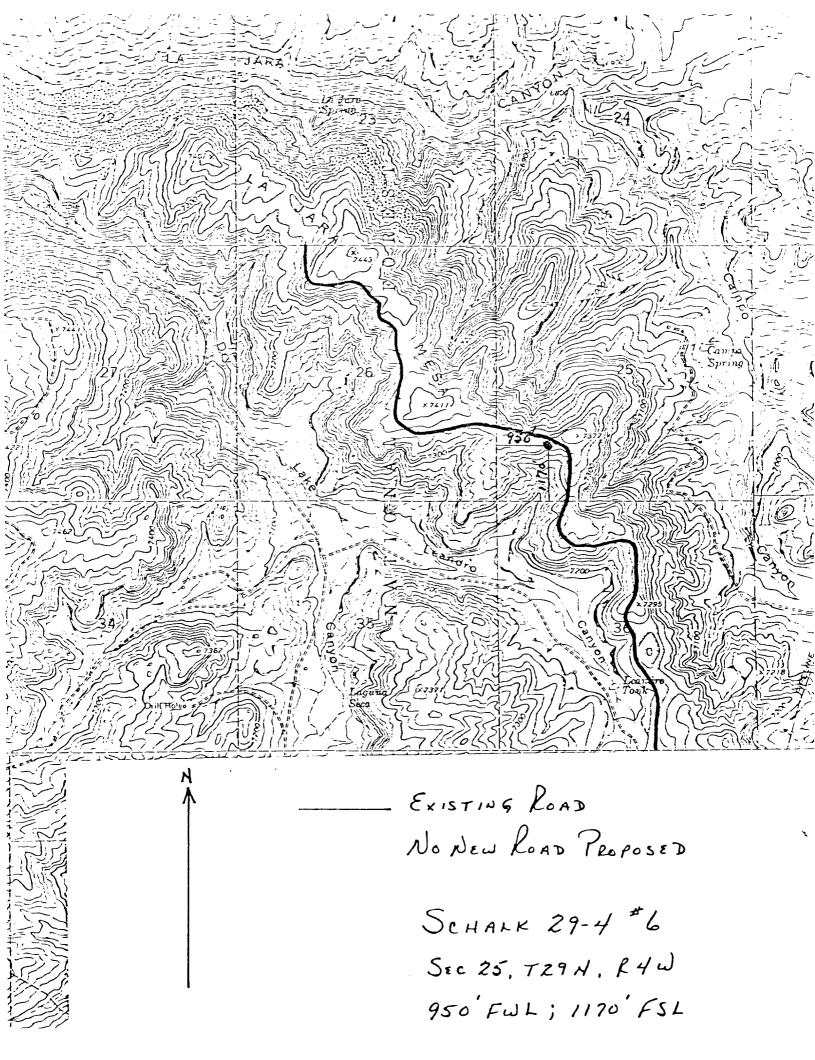
UNITED STATES OF THE INTEDIOD

GEOLOGICAL SURVEY	5. LEASE DESIGNATION AND BEHIAL NO. NM-18324	
A DRI ICATION FOR DEPLAIT TO DRILL DEEDEN OR DILLG BACK		
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK		
DRILL DEEPEN DEEPEN PLUG BACK	7. UNIT AGHEEMENT NAME	
b. TYPE OF WELL OIL GAS TO SINGLE MULTIPLE	S. FARM OR LEASE NAME	
OIL GAS WELL OTHER SINGLE ZONE ZONE 2. NAME OF OPERATOR	Schalk 29-4	
John E. Schalk	9. WELL NO.	
3. ADDRESS OF OPERATOR	6	
P. O. Box 25825, Albuquerque, N. M. 87125 1. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)	Gobernador Pic. Clif	
1170' FSL, 950' FWL, Section 25, Township	11. SEC., T., B., M., OE BLE. AND SUBVEY OR ABEA	
At proposed prod. zone 29 North, Range 4 West	Sec. 25, T-29N, R-4M	
14. DISTANCE IN MILES AND DIESCTION FROM NEAEEST TOWN OF POST OFFICE. 55 Miles East of Blanco, New Mexico	Rio Arriba NM	
The state of the s	NO. OF ACRES ASSIGNED TO THIS WELL	
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)	160	
18. DISTANCE FROM PROPOSED LOCATION [®] 19. PROPOSED DEPTH 20.	ROTARY OR CABLE TOOLS	
OR APPLIED FOR, ON THIS LEASE, FT. 3637' 4500'	Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7347 GR	February 13, 1978	
23. PROPOSED CASING AND CEMENTING PROGRAM	Tebruary 13, 1376	
	QUANTITY OF CEMENT	
BILL OF BOLL	00 sacks -	
	0 sacks	
FORMATION TOPS		
Kirtland 3795'		
Fruitland 3900'		
Pic. Cliffs 4050'		
TD 4500'	JAN LOUND FILE	
	Distraction of the property of	
It is the latin tel		
IN ABOVE SPACE DESCRIBE PROPOSED PROCEAR. If proposal is to deepen or plug back, give data on present zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and mea	productive zone and proposed new productive asured and true vertical depths. Give blowout	
operator	1-13-78	
	DATE	
SIGNED TITLE	•	
This space for Federal or State office use)		
This space for Federal or State office use)	DATE	

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

		All distant	es must be !	from the outer boun	daries of th	e Section	t		
Cherotor				Lecse				Viell No.	
C & 5.5	WENT SCHALK				SCHALK	29-	4	6	
uni Lett e r	JOHN SOMALK Geom	Township	rongii	Forge Statement	Cour	nty ⊃T∩	 _ABRTBA		
<u> </u>	25 Location of Wellin		VCRIH_			1140_			
7.7	TO feet from the	SOUTH	line and	950	feet from	n the	W = 2.1	line	
क एक एक हैं। ७७ ५७	Pic.	Cliffs		Gobernad	or Pic	. C1:	iffs,	T60 Avereage:	A.: 1+5
	the acerage decisacies								
D. If more interest and	than one lease is fe troyalty),	rsicated to th	ne well, ou	tline each and i	dentify th	ne owne	ership ther	reof (both as to	working
Bulfindre cycommun	than one lease of di Plaation, unitization,	fferent owner force-poolin	ship is ded g. etc?	Scored to the wa	ell, have t	he inter	rests of all	Lowners been cons	vi šetaš
r) Yes	() No If (answer is "ye	s," ty⊃e of	consolidation					
if chaker is	"no." list the owner	s and tract d	escriptions	which have act	ually cons	olidate	d. (Use re	everse side of this	Torm if
Na allawah	le will be assigned to otherwise) or until a	the well until non standard	all interes unit, elimi	its have been con inating such inte	nsolidated rests, has	(by c been a	ommunitiz pproved by	ation, unitization, the Commission.	forced-

CERTIFICATION I hereby certify that the information contained erein is true and complete to the best of my John E. Schalk Operator Company John E. Schalk Date 1-13-78 I hereby certify that the well location shown 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 hotwledge and belief. 1 December Fegivered Professional Engineer end/or Lond Surveyor James P. Lesse SCALE 4 INCHES EQUALS 1 MILE Certificate No. 1463 SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.



(ZIP Code)

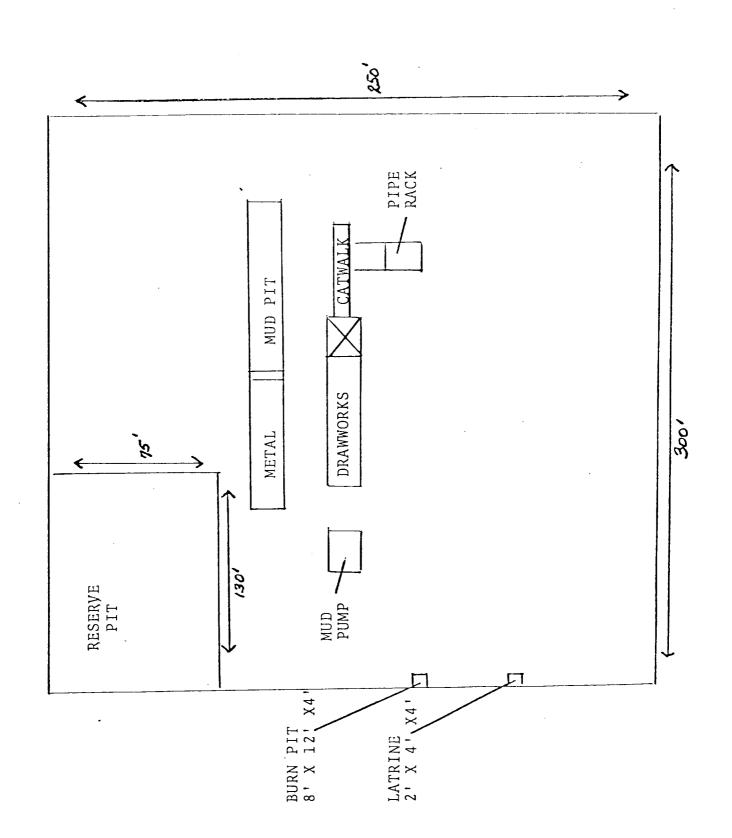
2700-3 (7/71)

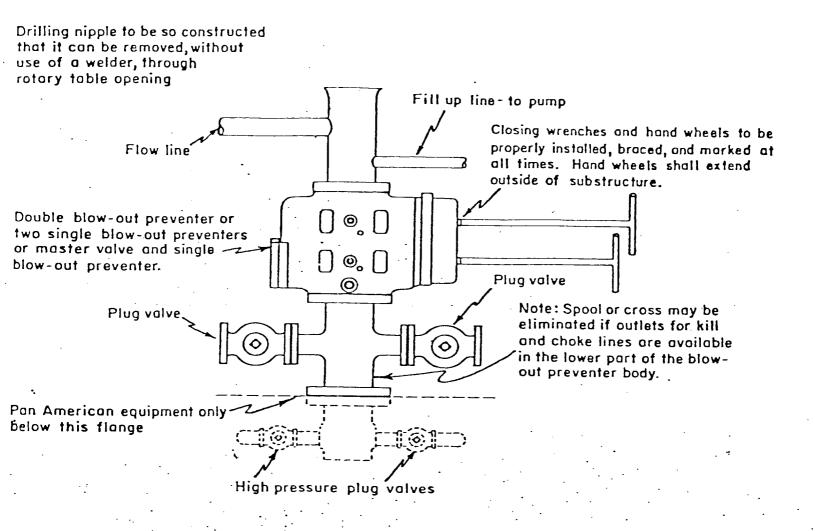
				11 70: 41 - K 4405
Coursed States, Department of Approvals Forest Service	ure	o. Record no. (1-2)	b. Region (3-4)	c. Forest (5-6)
SPECIAL U APPLICATION AND		d. District (7-8)	e. User number (9-12)	f. Kind of use (13-15)
Ref: FSM 27		g. State (16-17)	h. County (18-20)	k. Cord No. (21)
PART 1 - APPLICATION (To Application is hereby mode for a 1. Description of land: (Attach M.4)	permit to use Natio		ed below:	
A one acre p Range 4 West	lot in the	SW/4 of Section	n 25, Township	29 North,
2. Purpose of use.				
gas well loc	ated 1170' Section 25 ounty, New 1		Line, 950' Fr North, Range 4	om the West,
L ength in:	(M:les) or	× Width	(Feet) =	Acres)
4. Improvements a. Description				
Improvements an access ro	ad, collect	st of a one action pits, and of a cintenance and	other parapher	alia neces-
b. Plons attached Yes		w date plans will be furnished		
c. Estimated cost	d. Construc	tion will begin within	e. Construction will	be completed within
s5,000.00		1 (Months)	-	2 (Months)
Date of Application Applic 1-13-78	ants name and signatur	9 °W	P. O. Box Albuquerqu	25825 ne, New Mexico 87125

(OVER)

Multi-Point Surface Use and Operations Plan

- 1. Existing roads: Attached map shows existing road entering Section 25 approximately 1200' from the Southwest corner and running North and West, adjacent to the proposed location.
- 2. Planned Access road: None.
- 3. Location of Existing wells: El Paso Natural Gas Company, San Juan 29-4, 15-25, Section 25, Township 29 North, Range 4 West, Rio Arriba County, New Mexico.
- 4. Location of existing and/or proposed facilities: None.
- 5. Location and type of water supply: Water will be taken from a water hole 15 miles away and transported by truck to location.
- 6. Source of construction materials: None.
- 7. Methods for handling waste disposal: Cuttings to be disposed of in a reserve pit; a burn pit to be used for disposal of trash, garbage, etc.; and covered on clean-up of location.
- 8. Ancilary facilities: None.
- 9. Well site layout: Per attached drawing.
- 10. Restoration of surface: Upon completion of drilling operations, the disturbed surface area will be restored as near as practical to its original contours. If sufficient top soil is encountered, it will be stockpiled for restoration of surface. Restoration will be to the satisfaction of the United States Geological Survey.
- 11. This location slopes at an increase of 10' per 200' to the West. There will be approximately a five foot cut on the East, side of the proposed location. Vegetation is sage, pinon and Juniper trees. The surrounding area is comparable and any disturbances to the wildlife will be only temporary. With the restoration of surface, surface damage will be minimal.
- 12. Lessee's or Operator's Representative: John E. Schalk, P. O. Box 25825, Albuquerque, New Mexico, 87125; or J. C. Christesson, 2301 Southside River Road, Farmington, New Mexico, 87401.





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 correct; and, that the work associated with the operations proposed herein will be performed by Arapahoe Drilling Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date 1-13-78

John E. Schalk

Operator

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Report 77-SJC-204
Permit - New Mexico Forest
Service

An Archaeological Clearance Survey of Five Proposed Well Locations & One Access Road Conducted for Schalk Production Company

Submitted by
Dabney Ford
Cultural Resource
Management Program
San Juan College
N.M. State University
8 December 1977

An Archaeological Clearance Survey of Five Proposed Well Locations & One Access Road Conducted for Schalk Production Company

On December 2, 1977, Dabney Ford of the Cultural Resource
Management Program, NMSU, San Juan Campus, conducted an archaeological clearance survey at the request of Mr. J. E. Schalk, Schalk
Production Company. Mr. John Ahlm, Schalk representative, was
present during the survey. All of the well locations and the access
road are on Carson National Forest land and were surveyed under a
New Mexico Forest Service permit.

The most recent listings of the National Register of Historic Places have been consulted and no sites which appear on the Register and no sites which have been nominated to the Register occur on the project area. This proposal complies with the provisions of the Historic Preservation Act of 1966 and with Executive Order 11593. It is recommended that archaeological clearance be given.

METHODOLOGY

The well locations were surveyed by walking transects, 75 feet wide, over the entire easement. The access route was inspected by walking down the centerline the length of the road.

GENERAL RECOMMENDATIONS

No cultural resources warrenting relocation of well locations or road were found and full archaeological clearance is recommended.

SCHALK 29-4 #6

Carson National Forest

The proposed well location, 300 X 300 feet, is in the NE% of the SW% of the SW% of Section 25, Township 29 North, Range 4 West, N.M.P.M., in Rio Arriba County, New Mexico (Figure 1). The north boundry of the location borders on an existing access road thus no additional construction is necessary.

Pinon, juniper, Yucca baccata, mullen, sagebrush, indian ricegrass, blue grama, Gambel's oak, and snakeweed are growing in the sandy clay loam. The well, on the north edge of La Jara Mesa, is in broken terrain. Drainage is both northerly and southerly with alluvial and talus surface deposits. Local outcrops of sandstone are abundant.

No cultural resources were found and clearance is recommended.

SCHALK 29-4 #7

Carson National Forest

The proposed well location, 300 X 300 feet, is in the SW% of the NE% of the SW% of Section 26, Township 29 North, Range 4 West, N.M.P.M., in Rio Arriba County, New Mexico (Figure 1). The access road, 20 feet wide and approximately 4,000 feet long, takes off from the Leandro -Dry Lake Canon road in Section 35. It traverses the North % of the North % of Section 35, enters the West % of the East % of the SW% of Section 25, and approaches the location from the southwest.

Vegetation includes juniper, pinon, sagebrush, snakeweed, blue

grama, alkali sacaton, and Gambel's oak growing in a sandy loam.

The valley bottom is level with a northeasterly slope into La Jara

Canon. Alluvium is the dominant surface deposit and sandstone outcrops are abundant.

No cultural resources were found on the well location and archaeological clearance is recommended.

Three to five Rosa gray sherds and less than five lithics were found along the access road. Extensive examination of the surrounding area revealed a PII - PIII occupation site, SJC-153, on a bench directly above the area in question (see map 1 and accompanying site description and survey report). The sherds and lithics found in the road right-of-way have washed off the sandstone bench and are not in original context. There is no evidence (concentration of artifacts, soil stain, depressions, or hearth area) that the site extends down off the bench into the road easement. The site is not visible from the road and is in no danger of being disturbed during construction. Therefore, full archaeological clearance of the access road right-of-way is recommended.

SCHALK 29-4 #8

Carson National Forest

The proposed well location, 300 X 300 feet, is in the SE% of the NW% of the SW% of Section 27, Township 29 North, Range 9 West, N.M.P.M., in Rio Arriba County, New Mexico(Figure 1). The well is adjacent to an existing access road and no additional construction is necessary.

Pinon, juniper, blue grama, galleta, sagebrush, and buckbrush

are growing in the sandy clay loam. The terrace ridge top is level with a southerly drainage. Surface deposits are alluvium and sandstone outcrops locally.

No cultural resources were found and clearance is recommended.

SCHALK 29-4 #9

Carson National Forest

The proposed well location, 300 X 300 feet, is in the SE% of the NW% of the SW% of Section 22, Township 29 North, Range 4 West, N.M.P.M., in Rio Arriba County, New Mexico (Figure 1). The western boundry of the location borders on an existing location and will utilize the existing access.

Vegetation includes pinon, juniper, sagebrush, Gambel's oak, indian ricegrass, blue grama, Eriogonum, tumbleweed, and seeded grasses growing in the sandy clay loam. The terrace slope is broken with a west southwesterly drainage. Sandstone outcrops are abundant and alluvium is the dominant surface deposit.

No cultural resources were found and clearance is recommended.

SCHALK 29-4 #10

Carson National Forest

The proposed well location, 300 X 300 feet, is in the NW¼ of the SW¼ of the SW½ of Section 23, Township 29 North, Range 4 West, N.M.P.M., in Rio Arriba County, New Mexico (Figure 1). The north edge of the location borders on an existing road thus no additional access is required.

Vegetation includes juniper, pinon, sagebrush, Yucca baccata, blue grama, indian ricegrass, seeded grasses, Eriogonum, rabbitbrush, and snakeweed growing in the sandy clay loam. La Jara mesa top is level with a southerly drainage. Alluvium is the dominant surface deposit and sandstone outcrops are abundant.

No cultural resources were found and archaeological clearance is recommended.

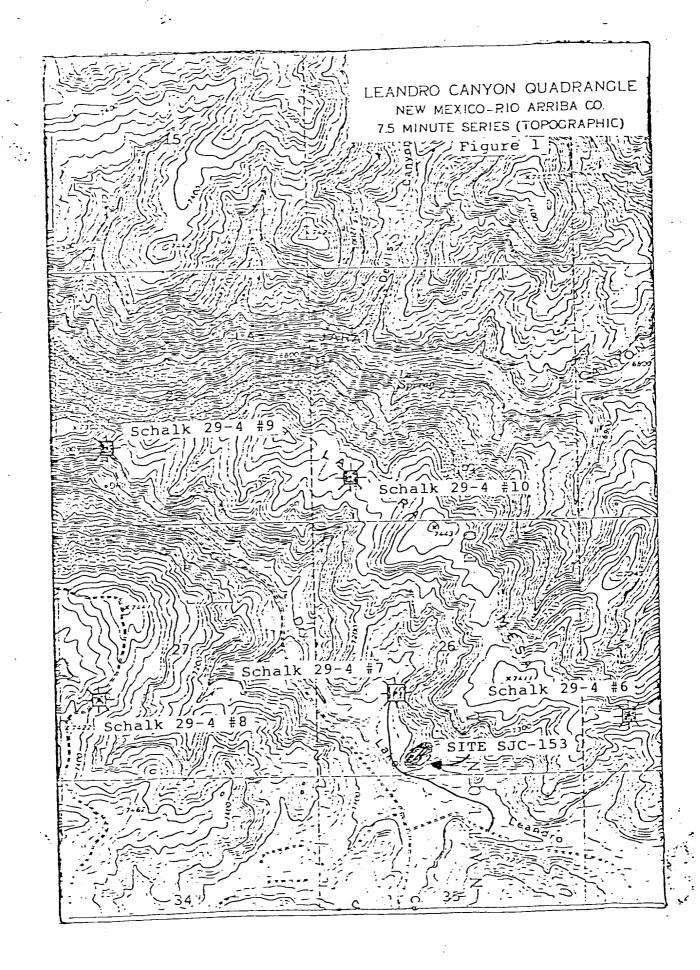
SITE SJC-153

The site consists of an extensive sherd and lithic scatter covering an area approximately 30m X 100m. It is located atop a low sandstone bench extending in a southerly direction into Leandro Canon. The sherds have a maximum density of 10 - 15 sherds per square meter over a 10 X 20 meter square area. The majority are Gallena gray wares with less than 5% corrugated gray wares. One sherd of red ware was found but is probably an oxidized Gallena and a carbon painted black on gray, probably Rosa or Gallena black on white. The lithics, 98% chert 2% obsidian were in the form of flakes, debitage, one core, and one projectile point. Maximum density of the flaked rock is 3 - 5 lithics per square meter over a 10 X 20 meter square area.

Although no readily definable structures can be seen on the surface, the possibility of pithouses is strong. There are two subtle depressions on the south side of the bench. The grass and sagebrush in these depressions are slightly more lush than the surrounding vegetation. There are no artifact concentrations or soil stains to provide a more comclusive statement.

It appears that the site continues along the entire southern edge of the bench which forms the southern limit of La Jara mesa. The canon bottom of the Leandro Dry Lake drainage is broad and flat, offering ample potential crop land, and the alluvial fans at the base of the bench would provide excellent farming soil.

The site has had considerable alluvial deposition thus the cultural fill should be protected and relatively deep. Potential is high for recovering pollen, flotation, and carbon samples in good context. There is an existing road on the flood plain below the site which will be utilized as a well access road (to Schalk $29-4~\ddagger7$). The site is not visible from this road and the road will not endanger the site.



W San Juan Campus Archeological Survey Schalk Project SITE NO.: L.A.
SJC-153 Field number same
ille name SJC-153 Field number State NM
State NM State SW4, Sec. 26, T. 29 S., R. 4 W CountyRio Arriba State NM Leandro Canyon, New Mexico Elevation 7100
USGS 7.5 min. Leandro Canyon, New Mexico Elevation 7100
Leandro Canyonsecondary La Jafa Canyon
Drainage: primary <u>Bedrid of</u> Drainage: primary <u>Bedrid of</u> Location on a low sandstone bench jutting out (in a southerly direction) Location on a low sandstone bench jutting out (in a southerly direction)
into Leandro Canyon
Nearest town Gobernador Nearest highway 17 Accessibility: foot X sedan X 4-wh. drbackhoe
Ownership Carson National Forest
Informant
Stake location Cave Dune
SITUATION (check): Valley bottom Bench X Slope Ridge Mesa top Cliff edge Overhald Com X 100m
FEATURES (Indicate number): Pit houses X Kivas Surface rooms, State Refuse area Refuse are
Refuse area (direction) S& Effectives Delta Enclosed plaza: by a wall
1 shaped - F-snaped E-snaped - E-snaped
C C C
by rooms Scattered X Indeterminate Utiler Part double-tier Part tier Orientation Exposure Single-tier Double-tier 5 5 5 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5
Single-tier Double-tiertiers Part double-tier Part tier Part tier Part tier Part tier Part tier Part tier
Condition: Undisturbed Pot-hunted Pottery/Artifact abundance: 103, 1003, 1003, 10003,
Surface: Level Uneven Slopes to [direction] S Surface deposits: Alluvium X Colluvium Aeolian Talus
Cravelly Sandy X Clayey Other
Residual Sandstone Rocky Gravery Basalt Tuff Other Local rock outcrops: Sandstone X Limestone Shale Caliche Basalt Fan 50m W.S. and E
Local rock outcrops: Sandstone X Limestone Shale Caliche Basalt Tutt Other Farm Arable land (type, distance & direction) floodplain and alluvial fan 50m W.S. and E 75m C. D. Spring Spring Seeps
Farm Arable land (type, distance & direction) floodplain and alluvial lan John Wyoyana Seeps Water (distance & direction): River Arroyo Confluence pinon, juniper, blue grama,
local vegetation patterns
cagobruch alkali SdCdLOUL Surkcuttury
Other resources within 1.5 miles of La Jara Canon with springs & seeps and less
Other resources within 1.5 miles of La Data Canon with than 1.5 mile from spring in Dry Lake Canvon.
nu11ont location for habituation of the
pithouse construction. Flood plain and especially alluvial fans optimal
for non-arable agriculture.
References Mera '35, Hall '44, Dick '76, Hawley Ellis '36
FOR INFORMATION ONLY
Excavation requirements: Labor 5 person crew time 10 days Equipment
CULTURE Largo Gallina / Anasazi Phase/Date PII - PIII / 1150 - 1250 AD
CULTURE Largo Garring , 12.00 Locality Lab. class 1 2 3 4 5 6 7 8 9 10 Zone Locality Lab. class 1 2 3 4 5 6 7 8 9 10
Lab. remarks
Dabney Ford Date 12/2/77 Collections Catalogue Nos.

