

	Kn
TO CY A	

UNITED STATES				
DEPARTMENT OF THE INTERIOR				
BUREAU OF LAND MANAGEMENT				

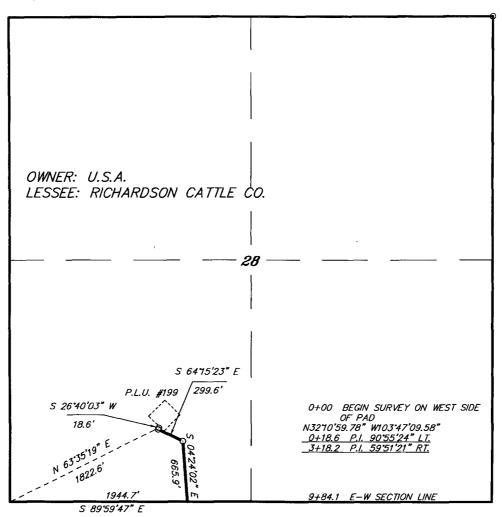
(August 1999)		DEPARTMENT BUREAU OF LA			SI	EP 23	<u>yona</u>	OMB No 1004-0 Expires Novemb	
	· Su	NDRY NOTICES AI	ID REPOR	TS ON WELLS	•	0	5 Lease Ser	rial No NM 0522A	
'		use this form for pro	_		n			Allotee or Tribe	
		on well. Use Form 31	•				o il liidiali, A	motee of Tribe	e indille
	aband	on wen. Ose i omi si	00-3 (AFD) i	or such proposals			7 If Unit or C	A/Agreement	t, Name and/or No
	SUBM	IIT IN TRIPLICATE OF	Marinetructic	A PART OF TOWARD CIDE			. (7)		e Unit 001796
1 Type of V		MINING MIREIOATE SOL	iei-man ucuc	Ma Office services	2 32 e	5.45 - 6.45 - 62.4	8 Well Name		5 Othe 00 17 50
	Oil Well 🙀 Gas Well	Other						Poker Lake	e Unit # 199
2 Name of							9 API Well N		
	BOPCO, L.P.							30-015-36	506
3a Address	;	,	3b Phone !	No (include area code)			10 Field and	Pool, or Expl	loratory Area
	PO Box 2760 Midland, T	exas 79702-2760		(432) 683-2277				Undesignat	ed Nash Draw Morrow
4 Location	of Well (Footage, Sec , T , R , I	• • •					11 County or	r Parish, State	е
	NESW, UN K, 1000' F								
	Section 28, T24S, R3 Lat N 32.183792, Lon	· ·						Eddy Cour	nty, N M
		PPROPRIATE BOX(	ES) TO IND				REPORT, OR	OTHER I	DATA
	E OF SUBMISSION	A sudime	F~~9			ACTION	(0) 1/ 5		
X	Notice of Itent	Acidize		Deepen			n (Start/ Resume	_	Water Shut-Off
_	Subsequent Report	☐ Alter Casır ☐ Casıng Re	_	Fracture Treat  New Construction	_	Reclamat Recomple			Well Integrity Other .
	Subsequent neport	☐ Casing Re☐ Change Pl	_	Plug and Abandon	_	•	rily Abandon		Other
	Final Abandonmment		Injection	Plug Back		Water Dis	-		
	T WILL FIDENCIAL	. Donvertio	injection [_]	r lug back	ч	vvaler Dis	posai		
13	Discribe Proposed or Comple If the proposed is to deepen of Attach the Bond under which	directionally or recomplete the work will be performed	norizontally, giv or provide the	e subsurface locations r Bond No on file with BL	measu .M/BIA	red and true Required s	vertical depths of subsequent reports	f all pertinent r s shall be filed	markers and zones d within 30 days
	testing has been completed determined that the site is real		s shall be filed o	only after all requiremen	ts, ınclı	uding reclar	nation, have been	completed, a	nd the operator has
	B0PCO, L.P. respectfu Section 28, T24S, R31 and will be in service fo Southern Union gas lin buried. We will not bla	E during testing of the following testing of the following testing the following the following testing testing the following testing testing the following testing	ne Morrow. vell has bee er Lake Uni	The proposed ga en put into product it # 50 Lot 2, Secti	s line tion. on 4,	will con: The prop T25S, F	sist of 2-7/8" s posed line will 31E and will o	steel pipe a connect w operate at	and run for 8,890' vith an existing 50 psig and not be
	B0PCO, L.P. respectful The proposed gas line T24S, R31E and will rull # 197, then continuing side, 50' from the centronnect with the Poker Lal connect with an existing arch cleared and a mal proposed gas line will in the proposed gas line will be proposed gas line	will consist of 6" .28 un southeast through east on the south si er line of the county r Lake Unit 50 well a ke Unit #67 lease ro ng Enterprise connec p along with the sun	0 wall steel a Section 33 de of the lea road (Buck and then con ad and two tion point lo vey plats are	welded pipe and a ready, T24S, R31E interests road, 30' from Thorn Road). The existing pipeline Facated at the PLU attached showin	run for the or gas li ROW! # 67 g the	or 14,149 ting with center lin line will ine will c s in Sect well Sec	l'. The gas lin a lease road le e. It will then continue into s ross the count ion 3 and 4, T tion 4, T25S, led route of the	e will beging to turn south Section 4, ty road and 25S, R311, R31E. The gas line.	n in Section 28, the Poker Lake Unit I following on west T25S, R31E and d continue east E. The well will e route has been A section of the

14. I hereby certify that the foregoing is true and correct	Title ·
Name (Printed/Typed)	
Bill Franks	Pipeline Foreman
Signature Sill Frank	Date 7/28/2009
THIS SPACE FOR FEDERAL	OR STATE OFFICE USE
Approved by /s/ Don Peterson	Title   Date   SEP   1 5 2009
Conditions of approval, if any, are attached Approval of this notice does not warrant or	Office
certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon	BLM Carlsbad Field Office

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

permanent lines.

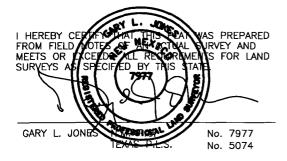
SECTION 28, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



### LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 28, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

984.1 FEET = 59.64 RODS = 0.19 MILES = 0.68 ACRES



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

W.O. Number: 21528 Drawn By: James Presley

Date: 07/13/09 Disk: JLP #1 - B0P21528

1000 0 1000 2000 FEET

### BOPCO, L.P.

REF: PROP. PIPELINE FOR THE BOPCO-POKER LAKE UNIT #199

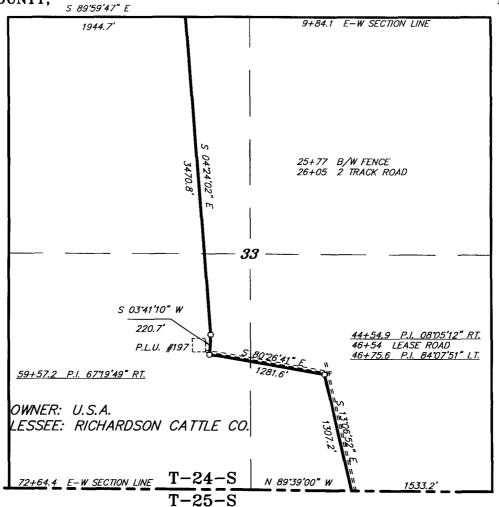
A PIPELINE CROSSING U.S.A. LAND IN SECTION 28, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 07/10/09

Sheet

of 3 Sheets

SECTION 33, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

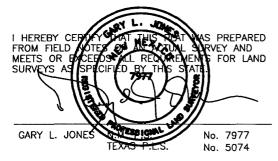




### LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 33, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

6280.3 FEET = 380.62 RODS = 1.19 MILES = 4.33 ACRES



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

W.O. Number: 21528 Drawn By: James Presley Date: 07/13/09

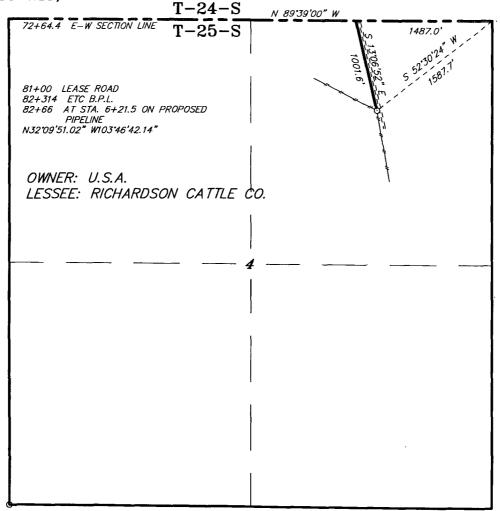
Disk: JLP #1 BOP21528 1000 n 1000 2000 FEET 

### BOPCO, L.P.

REF: PROP. PIPELINE FOR THE BOPCO-POKER LAKE UNIT #199

A PIPELINE CROSSING U.S.A. LAND IN SECTION 33, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 07/10/09 Sheet of Sheets SECTION 4, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

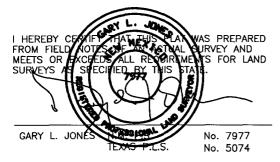




### LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 4, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

1001.6 FEET = 60.70 RODS = 0.19 MILES = 0.69 ACRES



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

W.O. Number: 21528 Drawn By: James Presley

Date: 07/13/09 | Disk: JLP #1 - B0P21528

1000 0 1000 2000 FEET

### BOPCO, L.P.

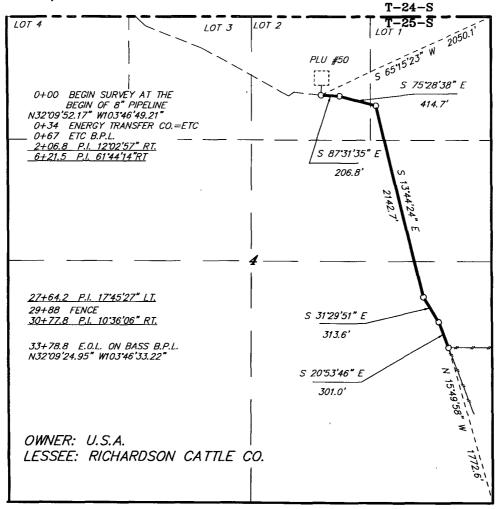
REF: PROP. PIPELINE FOR THE BOPCO-POKER LAKE UNIT #199

A PIPELINE CROSSING U.S.A. LAND IN
SECTION 4, TOWNSHIP 25 SOUTH, RANGE 31 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 07/10/09

Sheet 3 of 3 Sheets



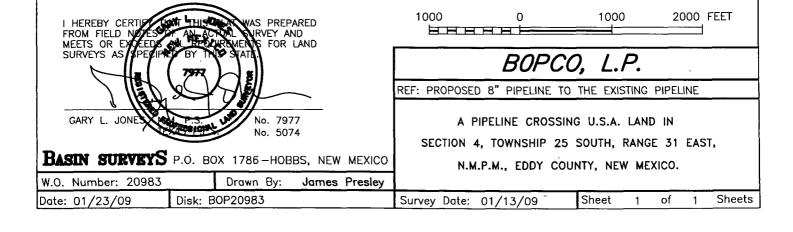




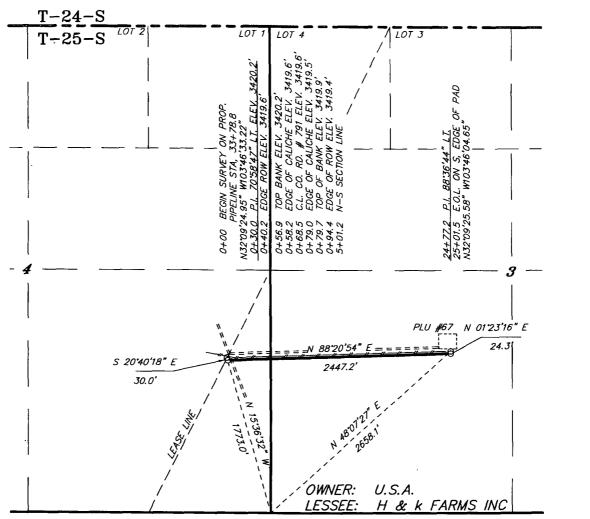
### LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 4, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

3378.8 FEET = 204.78 RODS = 0.64 MILES = 2.33 ACRES



SECTION 3&4, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

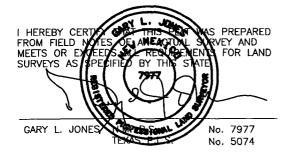


### LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTIONS 3&4, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

> SEC. 4 501.2 FEET = 30.38 RODS = 0.09 MILES = 0.34 ACRES SEC. 3 2000.3 FEET = 121.23 RODS = 0.38 MILES = 1.38 ACRES

TOTAL 2501.5 FEET = 151.61 RODS = 0.47 MILES = 1.72 ACRES



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

W.O. Number: 21547 Drawn By: James Presley

Date: 07/13/09 Disk: JLP #1 BOP21547 Survey Date: 07/10/09

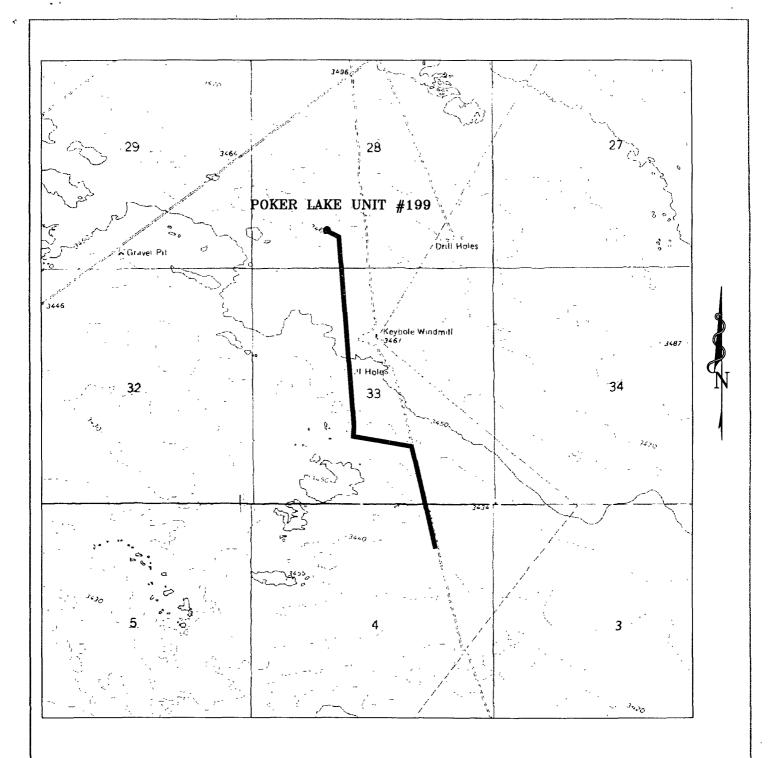
1000 1000 2000 FEET 

### BOPCO,

REF: PROPOSED PIPELINE TO THE PLU #67

A PIPELINE CROSSING U.S.A. LAND IN SECTIONS 3&4, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

Sheet Sheets



PROPOSED PIPELINE TO THE BOPCO-POKER LAKE UNIT #199
Sections 23&33, Township 24 South, Range 31 East,
& Section 4, Township 25 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:	21528
Survey Date:	7/10/09
Scale: 1" = 20	000'
Date: 07/14/	09

BOPCO, L.P.

BOPBO PLU #67 @Gravel Pit 10 Hurston

PROPOSED PIPELINE TO THE BOPBO PLU #67 Section 3, Township 25 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:	21547
Survey Date:	07/10/09
Scale: 1" = 20	000'
Date: 07/13/	09

BOPCO, L.P.

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF) 2a. Lead (Sponsoring) Agency: 1. NMCRIS Activity No.. 3. Lead Agency Report No.: 2b. Other Permitting Agency(ies): 114407 **BLM** 4. Title of Report: A class III archaeological survey of two proposed pipelines for BOPCO, LP. 5. Type of Report The first connects the PLU well #199 pad and the PLU well #197 pad to an existing service and ☐ Negative □ Positive the second connects the PLU well #67 pad to an existing service. Author(s) Jeffrey Pangburn and Vanessa Hughie 6. Investigation Type Research Design Survey/Inventory ☐ Test Excavation ☐ Excavation Collections/Non-Field Study Overview/Lit Review Monitoring ☐ Ethnographic study ☐ Site specific visit Other 7. Description of Undertaking (what does the project entail?): Between the 6th and 10th of July, 2009 Jeffrey Pangburn with Boone Archaeological Services conducted a class III survey for two proposed pipelines the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service and the second to connect the PLU well #67 pad to an existing service for BOPCO, LP The project was conducted to meet the federal and state laws for preserving and protecting cultural resources. These laws include Section 106 of the National Historic Preservation Act of 1966. This survey was designed to meet, but not limited to, the requirements detailed in the BLM Manual Supplement H-8100-1 New Mexico, Oklahoma and Texas, Procedures for Performing Cultural Resource Fieldwork on Public Lands in the area of New Mexico BLM Responsibilities 2002. The project consists of two proposed pipelines. The beginning of the first line (BOL) is located on the west side of the PLU well #199 pad and extends in a southeasterly direction to station 0+18.6 and turns left continuing to station 3+18.2 and turns right, then extends to station 44+54.9 and turns right continuing to station 46+75.6 and turns left, then extends to station 59+57.2 and turns right continuing to station 82+66 the end of the line (EOL) located at an existing service. The BOL for the second line is located at an existing service and extends in an easterly direction to station 0+30.0 and turns left continuing to station 24+77.2 and turns left, then extends to station 25+01.5 the EOL located on the south edge of the PLU well #67. The first proposed line is 8,266' (+/-) in length, and the second line is 2,501.5' (+/-) in length for a grand total of 10,767.5' (+/-) surveyed for this project. The survey corridor for this project is 100' (+/-) wide centered on the flagged right of way (ROW). The impact area is unknown but estimated to be a 50' wide corridor centered on the flagged right of way. With a noted exception that portions of this project which parallel existing surveys, the survey corridor was extended 50 foot from existing disturbed right of ways. Bill Franks with BOPCO, LP requested an infield meeting to delineate the project area and to discuss any possible problems with the cultural materials which could affect this project. Jeffrey Pangburn with Boone Archaeological Services met with Bill Franks on 7 July 2009. The meeting resulted in the project ROW being delineated with lathe and marking tape, the cultural survey followed. The project ROW was delineated by Bill Franks, however, immediately a cultural site LA 163428 was located. The site was documented and the original ROW was abandoned and an alternate ROW was selected. Both the original ROW and the currently staked ROW are plotted on the attached project map. The currently staked ROW does not intersect LA 163428, however, a cultural monitor is recommended to be present as construction passes between stations 0+18.5 and 8+00 to ensure the proposed undertaking does not adversely impact any cultural materials. The location of the cultural site required a consultation with Martin Stein, a staff archaeologist with the BLM-CFO. In the consultation the location of LA 163428 was discussed and relocation of the proposed ROW. Martin Stein informed this researcher that as long as the project did not intersect LA 163428 the project could be recommended to proceed. LA 163428 was recorded to reflect the current infield observations of the distribution of cultural materials. The noted cultural materials are within the survey area along the project right of way but do not intersect the estimated impact area of the ROW. It is suspected construction will not adversely affect the cultural site. Additionally several surveys are directly adjacent to portions of the currently staked ROW. The previous surveys include two lease roads and a pipeline ROW and were surveyed under BLM project numbers 02-NM-080-100, 99NM-080-67, and 02-NM-080-192. Each survey is parallel to the proposed ROW and after a consultation with Martin Stein of the BLM-CFO it was determined that the current undertaking would need to extend the survey corridor 50' from the disturbed portions of the existing right of ways. The proposed ROW crosses through a coppice dune field and portions of the proposed project ROW are bordered by an existing lease road, and flow lines. The proposed project is plotted on the attached project map. Location plots for the project were obtained by utilizing a hand held GPS. The project was delineated by the client prior to field work with lathe and marking tape. The areas recommended for monitoring are delineated on the attached project and site maps.

8. Dates of Investigation: (from: 7/6/2009 to: 7/10/2009)

Principal Investigator: Danny Boone

Field Supervisor: Jeffrey Pangburn

Field Personnel Names:

10. Performing Agency/Consultant: Boone Archaeological Services, LLC

2030 North Canal

Carlsbad NM 88220

	13. Client/Customer (project proponent): BOP Contact: Bill Franks Address: PO BOX2760 Midland TX 79702	CO, LP.		14. Client/	Customer Proje	ct No
	Phone: (432) 683-2277					
15.	Land Ownership Status (Must be indicated on proje					
	Land Owner	···		<b>*</b>	Acres in APE	٦
l	BLM		23.31	(+/-)	12.40 (+/-)	
}						
						_
]		TOTALS	23.31	(+/-)	12.40 (+/-)	-
		TOTALO	20.51	(''')	12.40 (17-)	
16	Records Search(es):					
 	te(s) of ARMS File Review 3 July 2009	Name of Davisus	-/a\ laff	Danahuu		
	te(s) of NR/SR File Review	Name of Reviewe Name of Reviewe	r(s) Jen r(s)	rey Pangbur	П	
Da	te(s) of Other Agency File Review 3 July 2009	Name of Reviewe	r(s) Jeff	rey Pangbur	n	Agency BLM
Fin	dings: A review of the BLM and ARMS database	s located LA 10781	6 and L	A 147527 wi	thin one quarter	mile of the current
	ertaking. Survey Data:					
	ource Graphics NAD 27 NAD 83					
a. 5	USGS 7.5' (1:24,000) to	opo man 🖂	Other to	po map, Sca	ale:	
			1-10m	po map, oo. 10-100 □		
	<del>-</del>	•			🛅	
<b>b</b> .U		S Quad Code 103-B7				
-	Big Sinks, NM (1968) 32	103-87				
<b> </b>						
-						
-						
		· · · · · · · · · · · · · · · · · · ·				
G (	County(ies): Eddy					

- 17. Survey Data (continued):
- d Nearest City or Town. Malaga, NM
- e Legal Description

Township (N/S)	Range (E/W)	Section	1/4 1/4 1/4
24S	31E	28	(anchored in SW corner) SE 1/4 SW 1/4, ,
24S	31E	33	(anchored in NW corner) NE ¼ NW ¼, SE ¼ NW ¼, NW ¼ SW ¼, NW ¼ SE ¼, SW ¼ SE ¼, SW ¼ SE ¼, SW ¼ SE ¼,
258	31E	4	(anchored in NW corner) NW ¼ NE ¼, NE ¼ NE ¼ SE ¼,
25S	31E	3	(anchored in NW corner) NW ¼ SW ¼, NE ¼ SW ¼
<u> </u>			
		<del> </del>	· · · · · ·
			, ,
		<del></del>	

						!		
					,			
	Projected legal descrip	Projected legal description? Yes ⊠ No ☐ Unplatted ☐						
	f. Other Description (e	e.g. well pad footage	s, mile markers, plats	, land grant name, etc	:.):			
	18. Survey Field Meth Intensity: ⊠ 100% co		% coverage					
	Configuration: Dbloc	ck survey units 🛛 🖂	linear survey units (I	x w): Total[BLM]- 10,7	67.5' (+/-) [First	t Line- 8,266'	(+/-)] [Second	
	Line- 2,501.5	5' (+/-)]	survey units (specify)	<b>)</b> :				
	Scope: X non-selective	ive (all sites recorde	d) 🔲 selective/them	natic (selected sites re	corded)			
	Coverage Method: 🛛	systematic pedestr	rian coverage 🔲 oth	ner method (describe)				
	Survey Interval (m): 15	5 Crew Size: 1 F	ieldwork Dates: 6 Ju	ly- 10 July 2009				
	Survey Person Hours:	: 6 Recording Per	son Hours: 2 Total H	lours: 8				
	Additional Narrative:	_						
ĺ	19. Environmental Set	tting (NRCS soil des	signation; vegetative o	community; elevation;	etc.):			
ĺ	Topography: Low hi	ills within a coppice	dune field					
	Vegetative communidation desert grasses		ote, 4-wing salt bush,	thistle, broom snake w	veed, drop seed	grass, yucca	and various other	
	NRCS: Kermit-Berin	no association: Sand	ly, deep soils from wi	nd-worked mixed sand	d deposits			
	Elevation: 3420'- 348	85'						
	20.a. Percent Ground	20. a. Percent Ground Visibility: 90% b. Condition of Survey Area (grazed, bladed, undisturbed, etc.): Grazed						
	21. CULTURAL RESOURCE FINDINGS ☑ Yes, See Page 3 ☐No, Discuss Why:							
	22. Required Attachments (check all appropriate boxes):  ☐ USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn ☐ Copy of NMCRIS Mapserver Map Check ☐ LA Site Forms - new sites (with sketch map & topographic map) ☐ LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum) ☐ Historic Cultural Property Inventory Forms ☐ List and Description of isolates, if applicable ☐ List and Description of Collections, if applicable							
	24. I certify the information provided above is correct and accurate and meets all applicable agency standards.							
ļ	Crew Chief/Responsib	Crew Chief/Responsible Archaeologist: Jeffrey Pangburn						

25. Reviewer's Name/Date  Accepted ( ) Rejected ( )  Tribal Consultation (if applicable):	Signature	20///2/10	Date. 17 July 20	09 Title (if not PI): Field Supervisor
Accepted ( ) Rejected ( )  Tribal Consultation (if applicable):				
Tribal Consultation (if applicable): ☐ Yes ☐ No  CULTURAL RESOURCE FINDINGS  [fill in appropriate section(s)]  1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites revisited (site update form required): 0 Previously recorded in Non-selective isolate recording? ☐ Total isolates recorded: 0 Non-selective isolate recording? ☐ Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing servi	Reviewer's Marrie/Date		Reviewer's Name/Date.	
Tribal Consultation (if applicable):	Accepted ( ) Rei	ected ( )	HPD Log #:	
CULTURAL RESOURCE FINDINGS  [fill in appropriate section(s)]  1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  3. Lead Agency Report No BLM  3. Survey Results:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing servi-			SHPO File Location:	
[fill in appropriate section(s)]  1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.	Tribal Consultation (if appl	icable):	Date sent to ARMS:	
[fill in appropriate section(s)]  1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.				
[fill in appropriate section(s)]  1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.				
[fill in appropriate section(s)]  1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.		•		
[fill in appropriate section(s)]  1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.				
[fill in appropriate section(s)]  1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.				
[fill in appropriate section(s)]  1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.				
[fill in appropriate section(s)]  1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.				
[fill in appropriate section(s)]  1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.				
1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.		CULT	JRAL RESOURCE FI	NDINGS
1. NMCRIS Activity No. 114407  2. Lead (Sponsoring) Agency: 3. Lead Agency Report No BLM  SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.			[fill in appropriate section(	(s)]
SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.	1 NMCRIS Activity No.			· · · · · · · · · · · · · · · · · · ·
SURVEY RESULTS:  Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.		,	choy.	3. Lead Agency Report No
Sites discovered and registered: 1 Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.				
Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.	SURVEY RESULTS:			
Sites discovered and NOT registered: 0 Previously recorded sites revisited (site update form required): 0 Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.	Sites discovered and regis	stered: 1		
Previously recorded sites not relocated (site update form required): 0 TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.				
TOTAL SITES VISITED: 1 Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias): 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.				
Total isolates recorded: 0 Non-selective isolate recording?  Total structures recorded (new and previously recorded, including acequias) 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.			m required): 0	
Total structures recorded (new and previously recorded, including acequias) 0  MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.				
MANAGEMENT SUMMARY: Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service.				
proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service	Total structures recorded	(new and previously recorded,	including acequias). 0	
proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service	MANAGEMENT SUMM	ARV: Archaeological clas	arance is recommended if	or the proposed right of way for two
THE SECURA IO COMISCUMS CLAD WEILMOT DAY IO AN EXISTRIA SERVICE IOF DUELO. THE 38 THE DIOJECT IS CHITCHIN S				
Provided a cultural monitor is present as construction passes between stations 0+18.5 and station 8+00. If cu				

materials are encountered, at any time, all work should cease and a BLM-CFO Staff archaeologist notified

Field/Agency No. Eligible? (Y/N, applicable criteria)

Field/Agency No. Eligible? (Y/N, applicable criteria)

Previously recorded sites (Site update form required):

Field/Agency No.

Yes; Criterion "D"

BAS 06-09-27

JP1

IF REPORT IS NEGATIVE YOU ARE DONE AT THIS POINT.

immediately.

Sites Discovered:

SURVEY LA NUMBER LOG

LA No. 163428

Previously recorded revisited sites:

Sites Discovered (site form required):

LA No.

MONITORING LA NUMBER LOG (site form required)

Field/Agency No.

LA No.

Areas outside known nearby	site boundaries monitored? Yes □, N	o ☐ If no explain wh	<b>y</b> :	
TESTING & EXCAVATION L	A NUMBER LOG (site form required)			
Tested LA number(s)	Excavated LA number(s)	ך		
		1		

,

BAS 06-09-27 -1-

### A Class III Archaeological Survey

Of

Two Proposed Pipelines, One to connect the PLU well #199 pad and the PLU well #197 pad to an existing service and the other to connect the PLU well #67 pad to an existing service

For

BOPCO, LP

By

Jeffrey Pangburn Boone Archaeological Services, LLC Carlsbad, New Mexico 88220

BAS No.: 06-09-21

NMCRIS No.: 114407

BAS 06-09-27 - 2 -

#### **Attention: Bill Franks**

#### **Introduction:**

Between the 6<sup>th</sup> and 10<sup>th</sup> of July, 2009 Jeffrey Pangburn with Boone Archaeological Services conducted a class III survey for two proposed pipelines the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service and the second to connect the PLU well #67 pad to an existing service for BOPCO, LP. The project was conducted to meet the federal and state laws for preserving and protecting cultural resources. These laws include Section 106 of the National Historic Preservation Act of 1966. This survey was designed to meet, but not limited to, the requirements detailed in the BLM Manual Supplement H-8100-1 New Mexico, Oklahoma and Texas, Procedures for Performing Cultural Resource Fieldwork on Public Lands in the area of New Mexico BLM Responsibilities 2002.

The project consists of two proposed pipelines. The beginning of the first line (BOL) is located on the west side of the PLU well #199 pad and extends in a southeasterly direction to station 0+18.6 and turns left continuing to station 3+18.2 and turns right, then extends to station 44+54.9 and turns right continuing to station 46+75.6 and turns left, then extends to station 59+57.2 and turns right continuing to station 82+66 the end of the line (EOL) located at an existing service. The BOL for the second line is located at an existing service and extends in an easterly direction to station 0+30.0 and turns left continuing to station 24+77.2 and turns left, then extends to station 25+01.5 the EOL located on the south edge of the PLU well #67. The first proposed line is 8,266' (+/-) in length, and the second line is 2,501.5' (+/-) in length for a grand total of 10,767.5' (+/-) surveyed for this project. The survey corridor for this project is 100' (+/-) wide centered on the flagged right of way (ROW). The impact area is unknown but estimated to be a 50' wide corridor centered on the flagged right of way. With a noted exception that portions of this project which parallel existing surveys, the survey corridor was extended 50 foot from existing disturbed right of ways.

Bill Franks with BOPCO, LP requested an infield meeting to delineate the project area and to discuss any possible problems with the cultural materials which could affect this project. Jeffrey Pangburn with Boone Archaeological Services met with Bill Franks on 7 July 2009. The meeting resulted in the project ROW being delineated with lathe and marking tape, the cultural survey followed. The project ROW was delineated by Bill Franks, however, immediately a cultural site LA 163428 was located. The site was documented and the original ROW was abandoned and an alternate ROW was selected. Both the original ROW and the currently staked ROW are plotted on the attached project map. The currently staked ROW does not intersect LA 163428, however, a cultural monitor is recommended to be present as construction passes between stations 0+18.5 and 8+00 to ensure the proposed undertaking does not adversely impact any cultural materials. The location of the cultural site required a consultation with Martin Stein, a staff archaeologist with the BLM-CFO. In the consultation the location of LA 163428

BAS 06-09-27 - 3 -

was discussed and relocation of the proposed ROW. Martin Stein informed this researcher that as long as the project did not intersect LA 163428 the project could be recommended to proceed.

LA 163428 was recorded to reflect the current infield observations of the distribution of cultural materials. The noted cultural materials are within the survey area along the project right of way but do not intersect the estimated impact area of the ROW. It is suspected construction will not adversely affect the cultural site.

Additionally several surveys are directly adjacent to portions of the currently staked ROW. The previous surveys include two lease roads and a pipeline ROW and were surveyed under BLM project numbers 02-NM-080-100, 99NM-080-67, and 02-NM-080-192. Each survey is parallel to the proposed ROW and after a consultation with Martin Stein of the BLM-CFO it was determined that the current undertaking would need to extend the survey corridor 50' from the disturbed portions of the existing right of ways. The proposed ROW crosses through a coppice dune field and portions of the proposed project ROW are bordered by an existing lease road, and flow lines. The proposed project is plotted on the attached project map. Location plots for the project were obtained by utilizing a hand held GPS. The project was delineated by the client prior to field work with lathe and marking tape. The areas recommended for monitoring are delineated on the attached project and site maps.

### **Legal Description:**

T 24S, R 31E, Sec. 28 (anchored in SW corner) SE ½ SW ¼, Sec. 33 (anchored in NW corner) NE ¼ NW ¼, SE ¼ NW ¼, NW ¼ SW ¼, NW ¼ SW ¼, NW ¼ SE ¼, SW ¼ SE ¼, T 25S, R 31E, Sec. 4 (anchored in NW corner) NW ¼ NE ¼, NE ¼ NE ¼, NE ¼ SE ¼, Sec. 3 (anchored in NW corner) NW ¼ SW ¼, NE ¼ SW ¼

USGS 7.5' Series: Big Sinks, NM (1968) 32103-B7

Land Status: BLM

#### **Environment:**

Topography: Low hills within a coppice dune field

Vegetation: Mesquite, creosote, 4-wing salt bush, thistle, broom snake weed, drop seed grass, yucca and various other desert grasses and forbes.

NRCS: Kermit-Berino association: Sandy, deep soils from wind-worked mixed sand deposits

BAS 06-09-27 - 4 -

Aspect: 360 degrees

Elevation: 3420'- 3485'

Lithic Resources: Some cherts, in gravels, very sparse.

Water Sources: (Potential) Keyhole Windmill 700'(+/-) east of the project area and several small playas with in .5 miles of the project area.

(Permanent) Pecos River, 10.5 miles west of the proposed right of way.

### **Methods of Examination:**

The undertaking was conducted by a pedestrian survey, with one field person, walking at 15-meter intervals along either side of the center flagged line for 100% coverage of the survey area. This survey was designed to meet, but not limited to, the requirements detailed in the BLM Manual Supplement H-8100-1 New Mexico, Oklahoma and Texas, Procedures for performing Cultural Resource Fieldwork on Public Lands in the area of New Mexico BLM Responsibilities 2002.

Area Delineation: Staked by client prior to fieldwork with lathe and marking tape.

Visibility: 85% (+/-)

Weather: Clear, sunny, warm Lighting Conditions: Fair Work Hours on the Ground: 8

Crew Size: one person

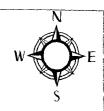
#### Findings:

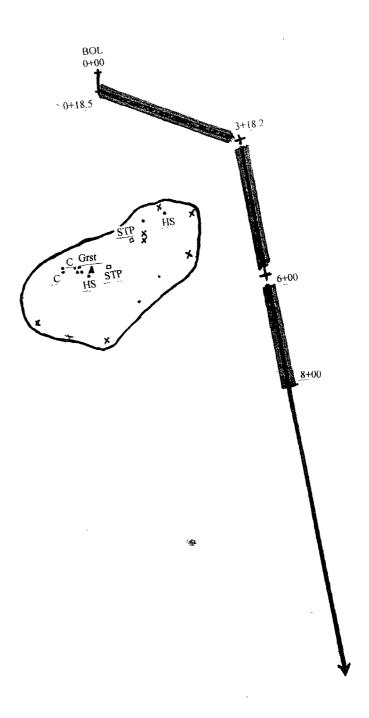
Jeffrey Pangburn conducted a review of the site files at BLM Carlsbad office in the Archaeological Records Management Section on 3 July 2009 and the ARMS file review was conducted on 3 July 2009. The results of these searches indicated LA 107816 and LA 147527 within one quarter mile of the current undertaking.

#### Recommendations:

Archaeological clearance is recommended, for the proposed right of way for two proposed pipelines, the first to connect the PLU well #199 pad and the PLU well #197 pad to an existing service and the second to connect the PLU well #67 pad to an existing service for BOPCO, LP as the project is currently staked. Provided a cultural monitor is present as construction passes between stations 0+18.5 and station 8+00. If cultural materials are encountered, at any time, all work should cease and a BLM-CFO Staff archaeologist notified immediately.

# Site Map LA 163428 BAS 06-09-27





## Legend

STP= Shovel Test Pit

Grst≈ Groundstone

C = Core

H5 - Hammerstone

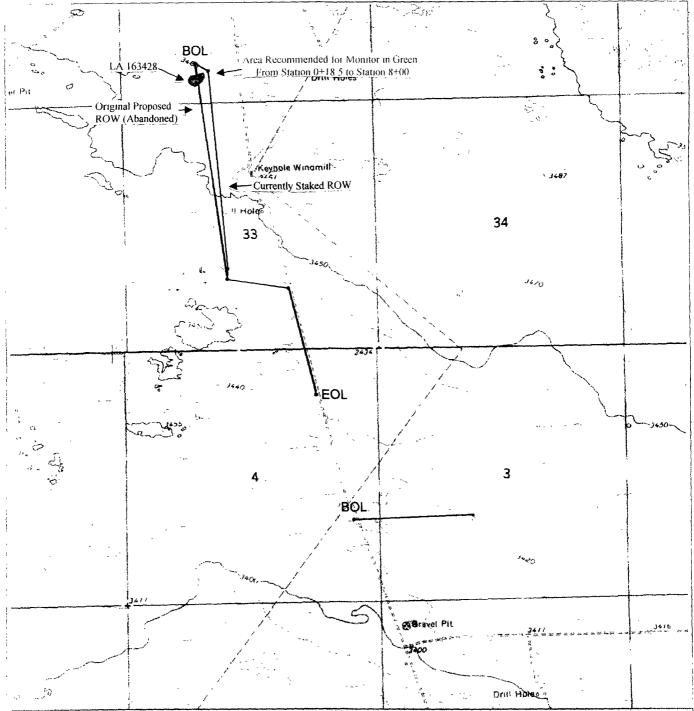
X - Fire Cracked Rock

\* Artifact

- Datum (NAD 27)

scale sem= 20m Area Recommended for Monnor in circulary Station 0+18 5 to Station 8+00





Location map of two proposed pipelines. The first connecting the PLU well #199 pad and the PLU well #197 pad to an existing service and the second connecting the PLU well #67 pad to an existing service for BOPCO, LP. The project is located in T 24S, R 31E, Sec. 28 (anchored in NW corner) SE 4 SW 4, Sec. 33 (anchored in NW corner) NE 4 NW 4, SE 4 NW 4, NW 4 SW 4, NW 4 SE 4, SW 4 SE 4, T 25S, R 31E, Sec. 4 (anchored in NW corner) NW 4 NE 4, NE 4 NE 4, NE 4 SE 4, Sec. 3 (anchored in NW corner) NW 4 SW 4, NE 4 SW 4 Eddy County, NM. Map Reference. USGS 7.5' minute Series; Big Sinks, NM (1968) 32103-B7

