OIL CONSERVATION DIVISION RECEIVED '89 OCT 23 AM 9 15 moco Production Company

1670 Broadway P.O. Box 800 Denver, Colorado 80201 303-830-4040

October 13, 1989

Mr. Michael Stogner New Mexico Oil Conservation Division PO Box 2088 Santa Fe, NM 87504

File: NWA-707-986.511

Request for Administrative Approval Directional Drilling Gartner Gas Com "A" Well No. 1 Section 27-T30N-R8W Basin Fruitland Coal Gas Pool San Juan County, New Mexico

Amoco Production Company respectfully requests administrative approval to directionally drill the above captioned well from a surface location of 2250' FNL and 1960' FEL to a bottomhole location of 2250' FNL and 1758' FEL. The reason for directional drilling is the lack of a suitable drillsite due to topographical conditions and archeological sites within the "legal window".

Per our discussion, please incorporate our application for unorthodox location, File: NWA-648-986.511 dated September 6, 1989, for required exhibits and notice.

Attached is a schematic of the planned wellpath for this well.

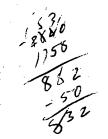
Sincerely,

J.W. Hawkins

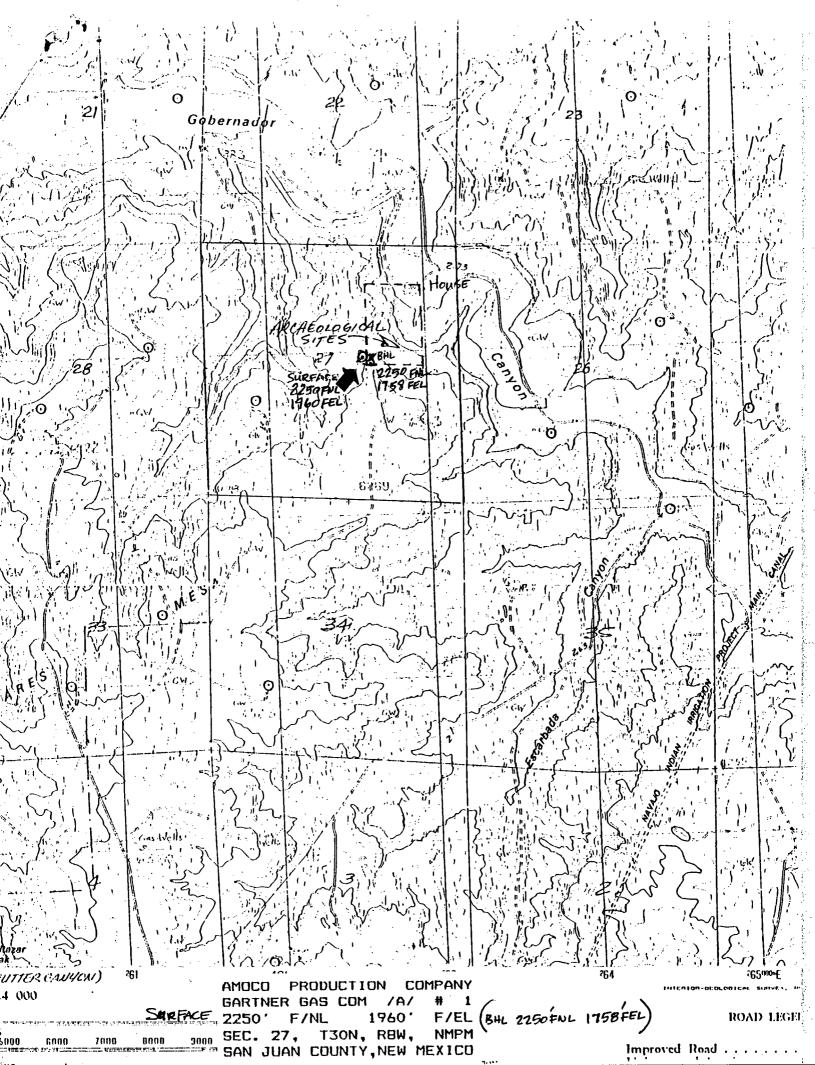
JWH/ae Attachment

Meridian Oil Inc. cc: PO Box 4289 Farmington, NM 87499 Attn: Robert J. Hopkins

> K.J. Lund J.L. Spitler R.A. Steele



E.L. Busch New Mexico Oil Conservation Division, District III 1000 Rio Brazos Road Aztec, NM 87410



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121551 جمعظه وازم والمحرب الم محم وردده الدم وال en all shore locations. and Directional Deilling Lesured on court of the grand for and ד צי פינייו או ייא בהי קו יור יי עיק בסיני ניו עין צ Jakked J. W. Hankins 68151/6



Amoco Production Company

Denver Region 1670 Broadway P.O. Box 800 Denver, Colorado 80201 303-830-4040



SEP 1 1 1989

OIL CONSERVATION DIV.

SANTA FE

September 6, 1989

Mr. William LeMay, Director New Mexico Oil Conservation Division PO Box 2088 Santa Fe, NM 87504

File: NWA-648-986.511

Request for Administrative Approval Unorthodox Location Gartner Gas Com "A" Well No. 1 Section 27-T30N-R8W Basin Fruitland Coal Gas Pool San Juan County, New Mexico

Amoco Production Company respectfully requests administrative approval for an unorthodox location for the Gartner Gas Com "A" Well No. 1 in the Basin Fruitland Coal Gas Pool. Amoco plans to drill the subject well at a location 2250' FNL and 1960' FEL of Section 27-T30N-R8W. This unorthodox location is necessitated by topographical conditions and the presence of archeological sites covering the orthodox location drilling window in the NE/4 of Section 27. Attached is a plat showing the proposed well location and the topographical conditions in Section 27 and a plat showing ownership of the offsetting spacing units.

A copy of this application will be sent to all offset operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection and return one copy to this office.

Sincerely,

J.W. Hawkins

WAIVER

hereby waives objection to Amoco Production Company's application for an unorthodox location for their Gartner Gas Com "A" Well No. 1 as proposed above.

R.A. Steele

By:_

Date:

cc: H

K.J. Lund J.L. Spitler

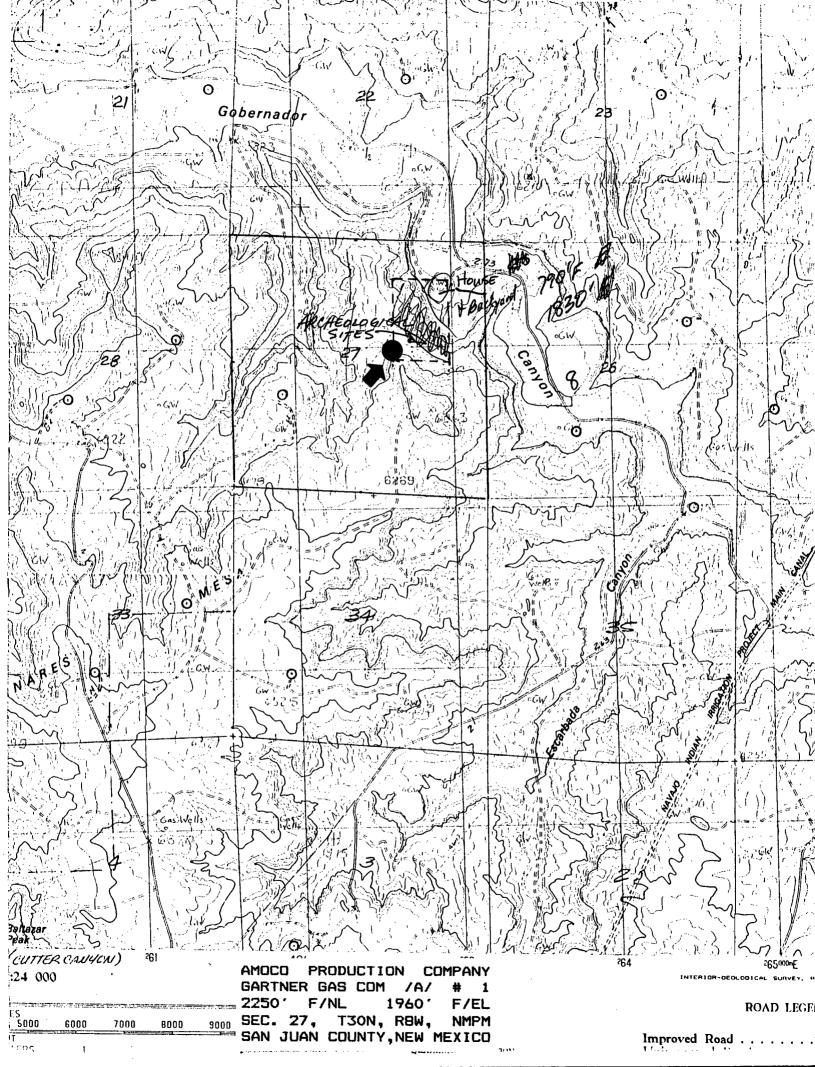
Affected offset operators - see attached mailing list

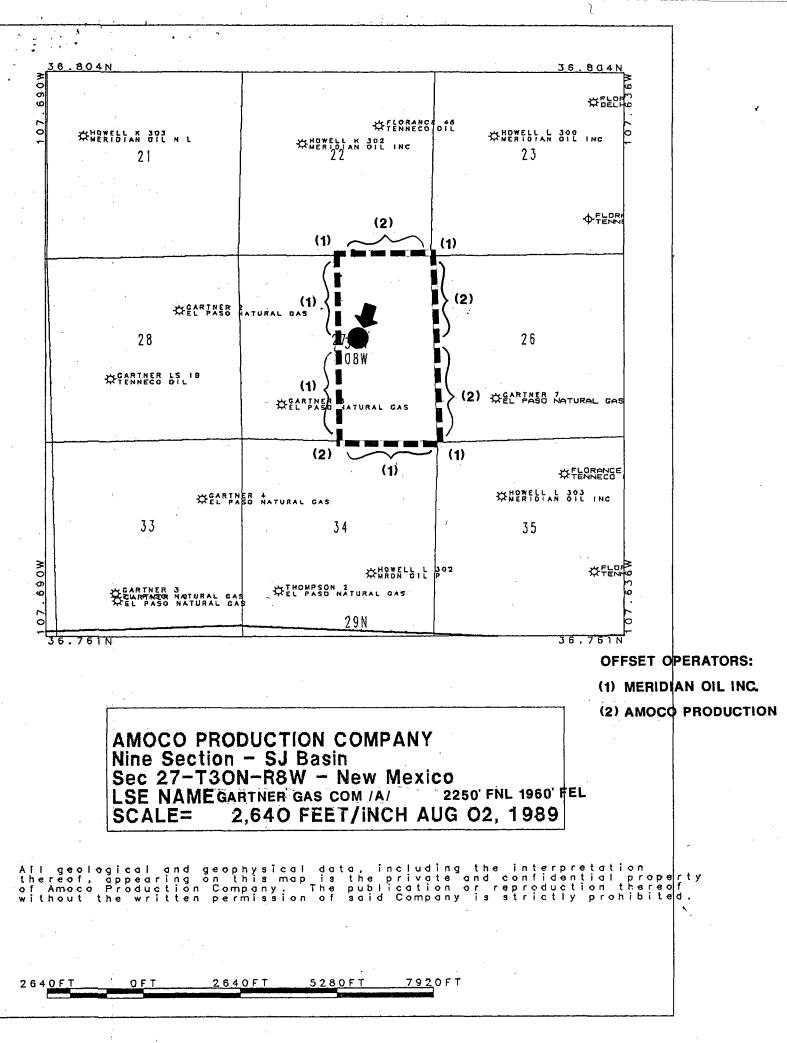
Affected Offset Operators - Gartner Gas Com "A" Well No. 1

(

Meridian Oil, Inc. PO Box 4289 Farmington, NM 87499

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The second se

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

DISTRICT I P.U. Bux 1980, Hobbs, NM 88240

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

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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All	Distances m	ust be from I	the outer bou	ndarles of the	section

All Distances must be from the	outer boundaries	of the section
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Operator			Lease			Well No.
AMDCO	PRODUCTION	J COMPANY	GARTN	ER GAS COM /	<u>ا</u>	# 1
Unit Letter	Section	Township	Range		County	······································
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	e the acreage dedicated	to the subject well by colored per	cil or hachure m	arks on the plat below.		
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unitiza	tion, force-pooling, etc.					
. 🛛	Yes	No If answer is "yes" ty				
		and tract descriptions which have	e actually been co	onsolidated. (Use reverse nd	le of	
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		o the well until all interests have b			ation, forced-poolin,	g, or otherwise)
or until a	non-standard unit, elin	ninating such interest, has been ap	proved by the Di	vision		
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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT **OIL CONSERVATION DIVISION** AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

GARREY CARRUTHERS GOVERNOR

Date: 9-14-89

Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088

Re: Proposed MC Proposed DHC Proposed NSL_ Proposed SWD_ Proposed WFX_ Proposed PMX

Gentlemen:

I have examined the application dated <u>7-11-89</u> for the Hater Tiend (to RATHER 7 - 3cn - 8co and my recommendations are as follows: S-T Unit. Lieceived Yours truly,

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SEP 1 8 1989

OIL CONSERVATION DIV. SANTA FE



ARCHAEOLOGICAL CONSULTANTS

ROBERT W. BIGGS 303/259-1930

2803 MESA AVENUE DURANGO, CO 81301

Antiquities Permit No. 46-2920-88-E A.C. Project Report No.742e, f

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MEMORANDUM

Date: September 13, 1989

Dave Kayser, Compliance Archaeologist, Farmington Resource Area, Bureau of Land Management, 1235 La Plata Highway, Farmington, New Mexico 87401

John Schwarz, Amoco Production Company, Farmington Operations Center, 2325 East 30th Street, Farmington, New Mexico 87401

From:

To:

Robert W. Biggs, Archaeological Consultants, 2803 Mesa Avenue, Durango, Colorado 81301

Subject: Cultural Resource Survey for Amoco Production Company's Proposed Gartner Gas Com A No. 1 Well Site and Alternate Well Site and Access Road and the Florance P No. 3 Well Site and Alternate Well Site and Access Road, San Juan County, New Mexico

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Enclosed is the required number of copies of the reports for the cultural resource survey on the above projects conducted June 9, July 31, 1989. The surveyed areas are located on federally owned property under the jurisdiction of the Albuquerque District of the Bureau of Land Management. Two previously recorded sites NM-01-1284/S190 and NM-01-1284/3191 were found within the proposed project area of the Florance P No. 3 Well Site and Access Road. The sites were avoided by moving the location 2190 feet to the north and 300 feet to the east. One archaeological site was encountered and recorded in conjunction with the Gartner Gas Com A No. 1 Well Site. The location was moved 460 feet to the south and 130 feet to the west to avoid the site. No cultural resources are endangered by any of the proposed activities.



ROBERT W. BIGGS 303/259-1930

2803 MESA AVENUE DURANGO, CO 81301

CEIVED

MEMORANDUM

SEP 21 1989 JIL CONSERVATION DIV.

SANTA FE

Date: September 16, 1989

To:

John Schwarz, Amoco Production Company, Farmington Operations Center, 2325 East 30th Street, Farmington, New Mexico 87401

From:

Robert W. Biggs, Archaeological Consultants, 2803 Mesa Avenue, Durango, Colorado 81301

Gartner Gas Com A No. 1 Alternate Well Site and the Florance P Subject: No. 3 Alternate Well Site, San Juan County, New Mexico

As per your request, this memorandum is to confirm that the restaking of the above wells in unorthodox locations was necessitated by the presence of significant cultural resources. The archaeological site encountered on the proposed Gartner Gas Com A No. 1 well pad is approximately 800 x 400 feet, and consists of cultural features indicating subsurface deposits. The site is, under 36 C.F.R. 64(d), considered eligible for inclusion in the National Register of Historic Places. Avoidance is the recommended action and preferred cultural resource mananagement measure.

The archaeological sites encountered in the area of the Florance P No. 3 well are situated in the well pad construction zone and along the crest of the narrow ridge in near proximity to the only feasible access route. Protection of the sites by fencing was suggested. After consultation with the Farmington Resource Area Compliance Archaeologist, fencing was deemed unacceptable because of the proximity of the sites to construction activities and the sandy nature of the soils along the ridge crest. These sites are also considered eligible for inclusion in the National Register of Historic Places under 35 C.F.R. 64(d). Avoidance of the sites by moving the proposed location was the recommended action.

Sincerel Robert W. Biggs

Director

/ik

SURVEY OF CULTURAL RESOURCES

FOR AMOCO PRODUCTION COMPANY'S PROPOSED GARTNER GAS COM A NO. 1 WELL SITE AND ALTERNATE WELL SITE AND ACCESS ROAD SAN JUAN COUNTY, NEW MEXICO

Prepared by

Jamie A. Karlson ARCHAEOLOGICAL CONSULTANTS Durango, Colorado 81301

Robert W. Biggs, Principal Investigator

September 13, 1989

Prepared for

AMOCO PRODUCTION COMPANY Farmington, New Mexico 87401

Abstract

On June 9 and July 31, 1989, Jamie A. Karlson of Archaeological Consultants (Permit No. 46-2920-88-E) conducted a class III cultural resource survey of a well site and alternate well site and access road for Glen Benfield representing Amoco Production Company. The proposed project areas are situated in San Juan County, New Mexico, on federally owned lands under the jurisdiction of the Farmington Resource Area of the Albuquerque District of the Bureau of Land Management. A total of 17.02 acres was inventoried. One archaeological site, AC742f-1, was encountered in conjunction with the proposed well site. The site was avoided by moving the proposed location 460 feet to the south and 130 feet to the west. Since site AC742f-1 was avoided and since no cultural resources were found at the proposed alternate location or along the access route, no further action is recommended unless subsurface cultural deposits or features are encountered during construction.

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SURVEY OF CULTURAL RESOURCES FOR AMOCO PRODUCTION COMPANY'S PROPOSED GARTNER GAS COM A NO. 1 WELL SITE AND ALTERNATE WELL SITE AND ACCESS ROAD SAN JUAN COUNTY, NEW MEXICO

A survey of archaeological and historical resources was conducted for Amoco Production Company's proposed Gartner Gas Com A No. 1 Well Site and Alternate Well Site and Access Road. The proposed location and access road are situated on federally owned property under the jurisdiction of the Farmington Resource Area of the Albuquerque District of the Bureau of Land Management.

On June 9 and July 31, 1989, Jamie A. Karlson of Archaeological Consultants accompanied Glen Benfield representing Amoco Production Company to the location.

The inspection was conducted in order to comply with legal provisions contained in the Act for Preservation of American Antiquities of 1906 (34 Stat. 225, 16, U.S.C. 431 et seq.); the National Historic Preservation Act of 1966 (80 Stat. 915, 16 U.S.C. 470 et seq.); the National Environmental Policy Act of 1969 (83 Stat. 852, 42, U.S.C. 431 et seq.); Executive Order 11593; the Archaeological and Historical Preservation Act of 1974 (88 Stat. 174, 16 U.S.C. 469 et seq.); the Archaeological Resources Protection Act of 1979 (93 Stat. 721, 16 U.S.C. 470 et seq.); and the American Indian Religious Freedom Act of 1979 (92 Stat. 469, 42, U.S.C. 1996 et seq.).

The survey was conducted under the terms of the Department of the Interior Antiquities Permit No. 46-2920-88-E. In accordance with these terms, the Farmington Resource Area Office was notified prior to the initiation of field work. A file search was conducted June 9 and August 15, 1989, through the office of the Area archaeologist of the Bureau of Land Management for previously recorded cultural resources located within the proposed project area.

SURVEY METHODS

The area of the proposed location, an area 600 feet x 550 feet around the proposed alternate location, and areas extending 60 feet on both sides of the flagged centerline of the proposed access route were examined for surface evidence of archaeological and historical resources which would be subject to direct impacts by preparation of the drilling pad, pits, access road, or by drilling activities. The well pad dimensions are 300×230 feet. The proposed pad, a construction zone of 100 feet, and a surrounding buffer zone were walked and examined by the archaeologist walking a series of parallel transects spaced approximately 10 to 12 meters apart. The proposed access road was examined by the archaeologist walking a zig-zag transect crossing the flagged centerline at 10 to 12m intervals. An approximate total of 17.02 acres was surveyed, while adjacent areas were given a cursory inspection for cultural resources which might be subject to indirect impacts from construction or drilling activities. No archaeological materials were collected.

RESULTS OF SURVEY

The file search indicated approximately six sites within a one-mile radius of the project area. The sites are Anasazi Basketmaker III-Pueblo I sites and Navaio Gobernador phase sites. The site nearest the project area, NM-01-35032, lies approximately 500 feet to the south and will not be affected. One site currently listed in the National Register of Historic Places is within the proximity of the work area. Christmas Tree Ruin (LA11097) lies approximately 3000 feet to the northeast and across Gobernador Canyon from the project area. One archaeological site, AC742f-1 was recorded in conjunction with this survey. The proposed location was moved 460 feet to the south and 130 feet to the west to avoid the site. No surface evidence of archaeological or historical resources was found at the proposed alternate location or along the access route. No evidence of cultural resources in adjacent areas was found which might be subject to indirect impacts from preparation of the well site or drilling activities. Specific data concerning location, terrain, environment, and cultural resources follow.

GARTNER GAS COM A NO. 1 WELL SITE (Figure 1)

Location:

The proposed well site is located 1790 feet FNL and 1830 feet FEL in the SW1 of the NE1 of Section 27, Township 30 North, Range 8 West, New Mexico Princi-Meridian, San Juan County, New Mexico pal (Archuleta, New Mexico, U.S.G.S. quadrangle map), UTM centerpoint: 13: 262620E 4074120N.

Terrain:

The proposed location is situated on Manzanares Mesa along the top of an unnamed mesa overlooking Gobernador Canyon to the north and east. The average elevation of the project area is 6157 feet above sea level.

Flora:

Surface Area:

The flora consists of Pinyon-juniper forest with mountain mahogany, broom snakeweed, Mormon tea, and grasses.

The soils consist of sandy clay-loams with sandstone outcrops and boulders and bedrock exposures along the canyon rim. The area is presently used for energy development.

Cultural Materials: One archaeological site, AC742f-1, was encountered.

SITE AC742f-1

Location:

The NE¹ and the W¹ of the SW¹ of the NE¹₂, Section 27, Township 30 North, Range 8 West, New Mexico Principal Meridian, San Juan County, New Mexico, UTM centerpoint: 13: 262600E 4074180N.

The site is situated on Manzanares Mesa on the top of an unnamed mesa overlooking Gobernador Canyon to the north and east. The site consists of of a large ceramic/lithic scatter with artifact concen-

hearth, a charcoal stain eroding out of the bank of a small arroyo, and an alignment of sandstone rocks. Feature 1 is a probable hearth, consisting of a small charcoal stain surrounded by plain grayware sherds; Features 2, 3, and 4

trations, one hearth, one

240x 120m

Site Size:

Site Description:

Vegetation:

Artifacts Observed:

are small lithic concentrations, consisting of chert and quartzite unifacially modified flake tools, utilized flakes and debitage situated in and around arroyos along the northern margin of the site. Feature 5 is a concentration of plain grayware sherds: Feature 6 is a small

probable

grayware sherds; Feature 6 is a small concentration of black-on-red sherds. Feature 7 is a hearth consisting of oxidized sandstone rocks and charcoal with an associated artifact scatter consisting of grayware sherds. black-on-red sherds, chert, quartzite and obsidian flakes. Feature 8 is an alignment of a single course of sandstone rocks approximately 3m in length, function unknown. Feature 9 is a charcoal stain washing out of the bank of a small arroyo with a concentration of grayware sherds.

Site vegetation includes pinyon pine, juniper, grasses, and Mormon tea.

The plain grayware sherds observed have irregular exterior surfaces that have been wiped, some few appear to have been smoothed. Interior surfaces have been wiped. Temper ranges from fine to very fine grain size particles which appear to be sand or crushed sandstone. The graywares are probably Dinetah gray. The redware sherds are thin walled, exterior surfaces and some interior surfaces have been polished. The vessels have been decorated with a black, probably mineral, paint and are possibly Rio Grande glazewares. A single yellow sherd, with polished surfaces, and no visible temper, a possible Jeddito Black-on-vellow sherd was observed. Lithic artifacts include one small quartzite biface, chert and quartzite unifacially modified flake tools, utilized flakes of chert quartzite and obsidian, and debitage.

Cultural · Affiliation/Date:

Character of Deposits/Depth:

National Register Potential:

Management **Recommendations:** Probably Navajo, Gobernador phase ca. A.D.1694-1750.

The site is a Category 2 site and is considered eligible for inclusion in the National Register of Historic Places under

The site was avoided by moving the proposed location 460 feet to the south and 130 feet to the west.

GARTNER GAS COM A NO. 1 ALTERNATE WELL SITE AND ACCESS ROAD

262680E 4073580N).

Undetermined.

36 C.F.R. 64(d).

Location:

The proposed well site is located 2250 feet FNL and 1960 feet FEL in the SW1 of the NE1 of Section 27 (Figures 1 and 2), Township 30 North, Range 8 West, New Mexico Principal Meridian, San Juan County, New Mexico (Archuleta, New Mexico U.S.G.S. quadrangle

Terrain:

map), UTM centerpoint: 13: 262620E 4073980N. Access Alignments: The proposed access road is approximately 1800 feet long and crosses portions of the NW1 of the SE1 and the $SW_{\frac{1}{2}}$ of the NE_{$\frac{1}{2}$} of Section 27 from an existing road from an existing well (UTM coordinates: 13:

> The proposed location and access road are situated on Manzanares Mesa on steep northwest-facing slopes overlooking an unnamed tributary canyon draining into Gobernador Canyon to the north. The average elevation of the project area is 6186 feet above sea level.

Flora:

The flora consists of Pinyon-juniper forest with mountain mahogany, broom snakeweed, Mormon tea, and grasses.

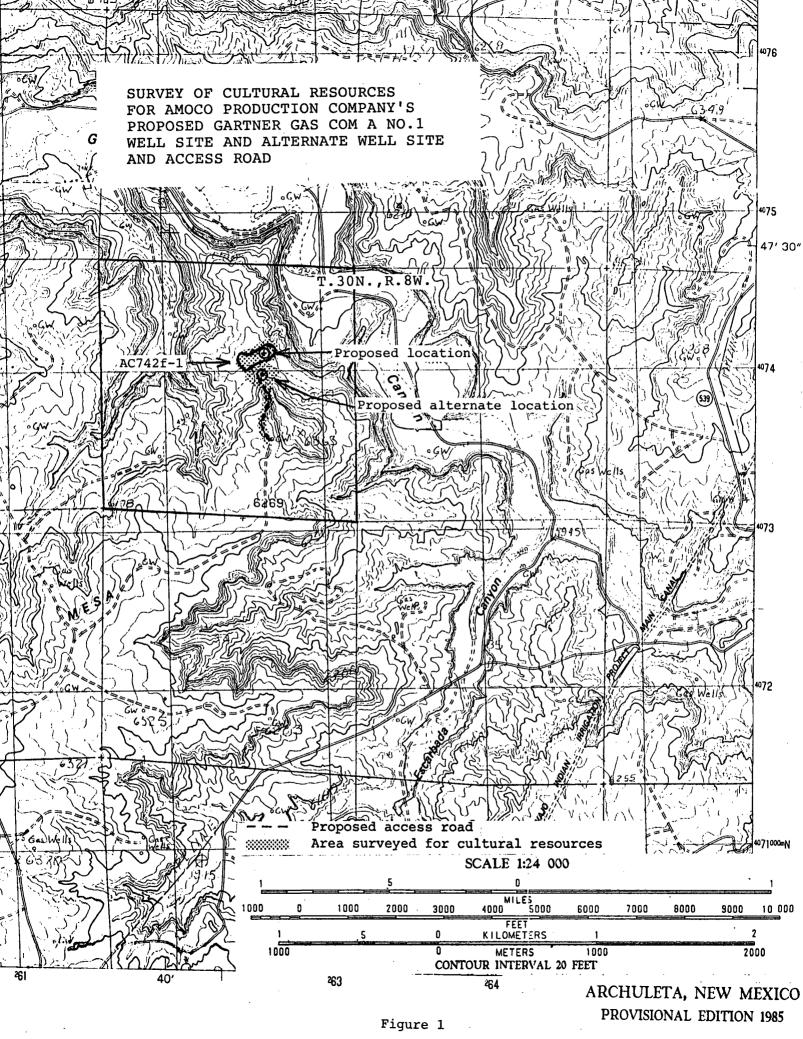
Surface Area:

The soils consist of sandy clay-loams with sandstone outcrops and boulders. The area is presently used for energy development.

Cultural Materials: None observed.

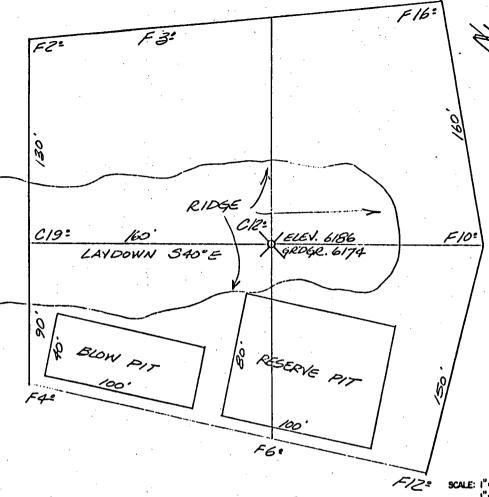
RECOMMENDATIONS

Since site AC742f-1 was avoided by moving the proposed location 460 feet to the south and 130 feet to the west, and no since evidence of archaeological or historical resources which would be endangered by well site preparation or drilling activities was found at the alternate location or along the access road, no further action is deemed necessary unless subsurface cultural features or deposits are exposed during construction. Should subsurface archaeological materials be encountered during preparation of the well site or construction of the access road, it is recommended that work be halted in the area of the finds and the Farmington Resource Area archaeologist be notified immediately. Further construction in the area of these finds should be suspended until the materials are examined and evaluated by a qualified archaeologist.



36107-G6-TF-024

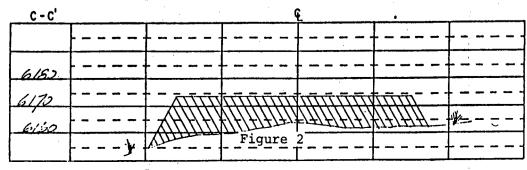
AMOCO PRODUCTION COMPANY GARTNER GAS COM /A/ # 1 2250' F/NL 1960' F/EL SEC. 27, T30N, R8W, NMPM SAN JUAN COUNTY, NEW MEXICO

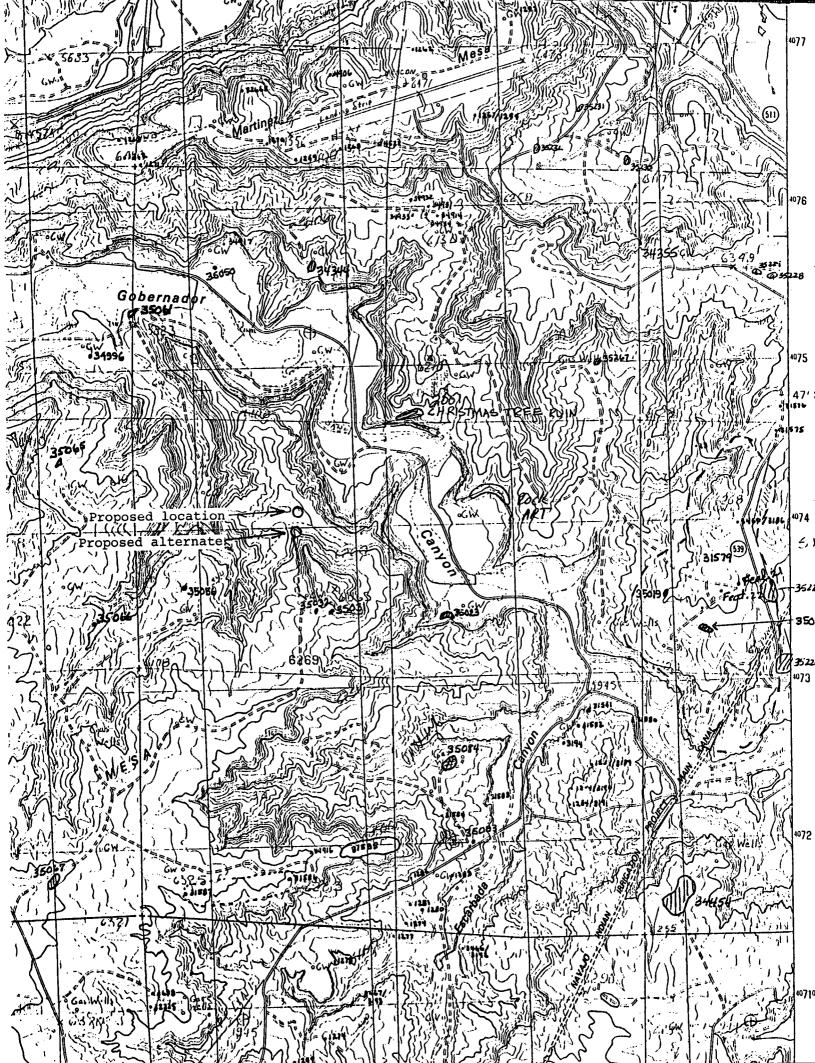


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APPENDIX

LABORATORY OF ANTHROPOLOGY, MUSEUM OF NEW MEXICO ARCHAEOLOGICAL SITE SURVEY FORM

LA/Field No AC742f-1

LABORATORY OF ANTHROPOLOGY, MUSEUM OF NEW MEXICO ARCHEOLOGICAL SITE SURVEY FORM

LA No.	Site Name	_ Other Inst.#	I.O
MNM Proj.#	UTM: Zone <u>1</u> <u>3</u> E <u>2</u> <u>6</u> <u>2</u>	<u>6 6 6 м 4 0 7 4</u>	1 8 0
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*Map Reference:	Archuleta, New MexicoDa		
County <u>San Juan</u>	State_ <u>New Mexico</u> Neare	st Named Drainage <u>G</u>	Gobernador Canyon
on a narrow mest,	.: Recognized Landmarks <u>T</u> along the northern base of a l <u>or Canyon to the north and eas</u>	arge, steeply rising hil	
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Site Size: Leng	gth <u>240</u> Width <u>120m</u>	Elevation (# of	Feet) <u>6157</u>
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	e pipeline right-of-way.	<u> </u>	<u>me 5100 1100</u>
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bench	hill top	ridge	÷
blowout	hill slope	saddle	
canyon rim	low rise	base talus	clone ·
cave	<u> </u>	base tartis	STOPE
cliff/scarp	mountain	other (specif	· · · ·
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dune	open canyon f		
uune	open canyon r	1001	
Local Vegetation	n Pinyon pine, juniper, grasse	s, Mormon tea	
	·	·	:
Ecological Zone	: forest woodland_X	scrubland grassla	nd
desertscrub r	marshland other (speci	fy)	
		2200 - Contraction - Contracti	

*Form must be accompanied by photocopy portion of USGS map showing T., R., scale and quad name.

LA/Field No.<u>AC742f-1</u>

Soil Type: rocky gravelly sandyX clayey other
Local Outcrops: sandstone X shale limestone basalt tuff other (specify)
Nature and Depth of Fill: Undetermined
Arch. Status: Amount and Type of Work Past and Present Recorded, mapped, and photographed in conjunction with survey of Gartner Gas Com A'No. 1 well site
National and/or State Register Status: On State Register On National and State Register Recommended for National by State, on State Register Recommended for National and State Register In District, National and State
In District, National In District, State Recommended and rejected Insufficiently evaluated, potential unknown Not nominated The site is Category 2 and considered <u>National Register</u> eligible
Condition of Site: intactgrazederoded_X_mech. disturbancevandalizedother
Mitigation: avoid <u>X</u> monitor test excavate not required
Surveyed for Amoco Production Company
Record Form: Surv. Forms Excav. Forms Sketch Map X Photos X
Loc. of Forms, Maps, Photos <u>Archaeological Consultants</u> , Durango, Colorado Negatives, Farmington Resource Area, Bureau of Land Management Surface and/or Subsurface Collections: yesno_ <u>X</u> Strategy
Location of Collected Artifacts N/A
Previous Collections? When Repository
Is there another site close by? <u>No</u> LA or Field Identif.#
Artifact Density: 0, 10's, 100's, 1000's.
Time Diagnostic Artifacts: Rio Grande glazeware ceramics

LA/Field No. AC742f-1

ч. ° ч

No. of Temporal Compone	nts	1.1
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(Earliest to Latest)

Temporal Component (1)

Features <u>F. 1- possible hearth</u> trations; F. 5- grayware sherd co			
F. 7- hearth and ceramic/lithic c	concentration; F. 8 st		
and grayware sherd concentration. Culture <u>Navajo</u>	Period	Phase Cobernador	
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Published Reference:

Date 9/13/89

Institution Archaeological Consultants

Author and Title<u>J. Karlson- Survey of Cultural Resources for Amoco Proudction Comp</u>any's Proposed Gartner Gas Com A No. 1 Well Site and Alternate Well Site and Access Road, San Juan County, New Mexico

Remarks: The site is situated on Manzanares Mesa on the top of an unnamed mesa overlooking Gobernador Canyon to the north and east. The site consists of a large ceramic/lithic scatter with artifact concentrations, one hearth, one probable hearth; a charcoal stain eroding out of the back of a small arroyo, and an alinment of sand-

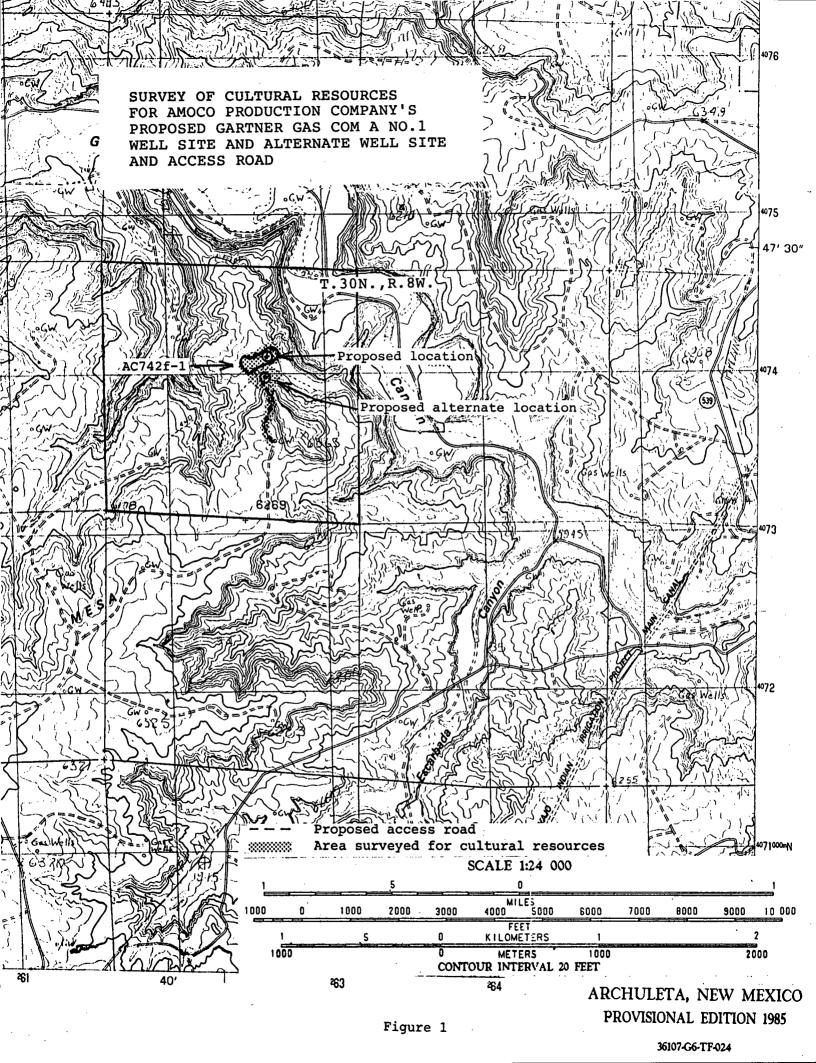
Artifacts observed include plain grayware sherds with irregular exterior surfaces that have been wiped, some few appear to have been smoothed. Interior surfaces have been wiped. Temper ranges from fne to very fine grain size particles which appear to be sand to crushed sandstone. The graywares are probably Dinetah gray. The redware sherds are thin walled, exterior surfaces and some interior surfaces have been polished. The vessles have been decorated with a black, probably mineral, paint and are possibly Rio <u>Grande glazewares. A single yellow sherd with polished furfaces and no visible temper</u>, a possible Jeddito Black-on-yellow sherd was observed. Lithic artifacts include one <u>small, triangular biface, chert and guartzite unifacially modified flake tools</u>, utilized flakes of chert, quartzite and obsidian, and debitage.

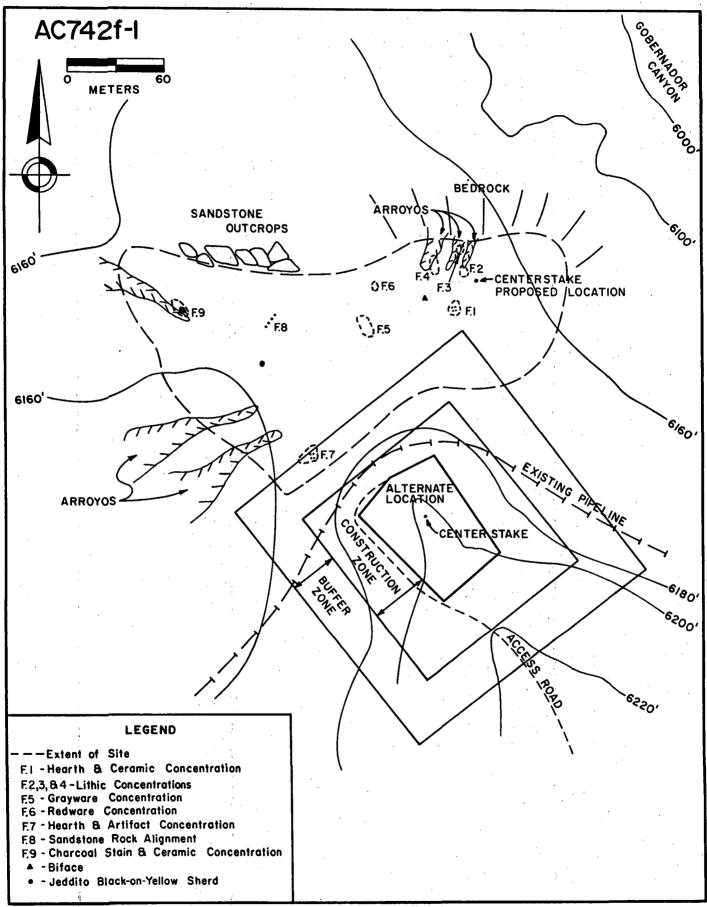
Field Recorder J. Karlson

_____ Date <u>7/31/89</u>___

Lab Recorder____

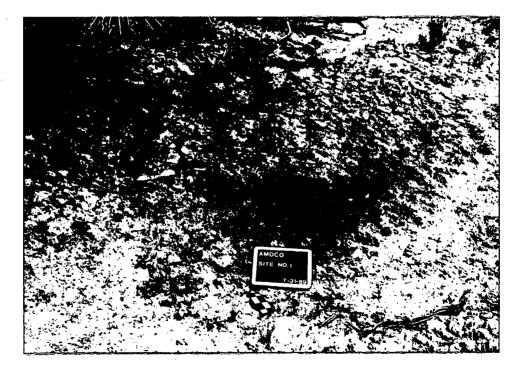
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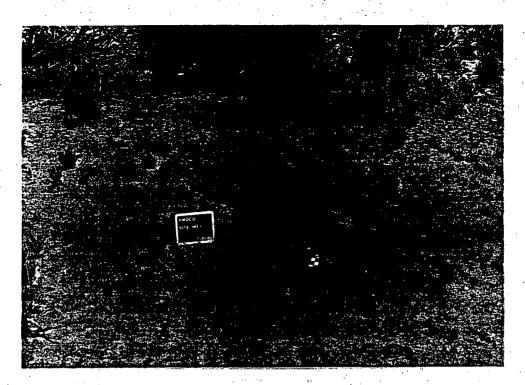




Site AC742f-1. Feature 7, a hearth and associated artifact scatter consisting of Dinetah gray sherds, Rio Grande glazeware, chert, quartzite, and obsidian flakes. View is to the north.



Site AC742f-1. Feature 9, charcoal eroding out of the bank of a small arroyo and associated grayware sherds, possibly Dinetah gray. View is to the north.



Site AC742f-1. Feature 7, a hearth and associated artifact scatter consisting of Dinetah gray sherds, Rio Grande glazeware, chert, quartzite, and obsidian flakes. View is to the north.



Site AC742f-1. Feature 9, charcoal eroding out of the bank of a small arroyo and associated grayware sherds, possibly Dinetah gray. View is to the north.

Antiquities Permit No. 46-2920-88-E A.C. Project Report No. 742e

SURVEY OF CULTURAL RESOURCES FOR AMOCO PRODUCTION COMPANY'S PROPOSED FLORANCE P NO. 3 WELL SITE AND ALTERNATE WELL SITE AND ACCESS ROAD SAN JUAN COUNTY, NEW MEXICO

Prepared by

Jamie A. Karlson ARCHAEOLOGICAL CONSULTANTS Durango, Colorado 81301

Robert W. Biggs, Principal Investigator

September 13, 1989

Prepared for

AMOCO PRODUCTION COMPANY Farmington, New Mexico 87401

Abstract

On June 9 and July 31, 1989, Jamie A. Karlson of Archaeological Consultants (Permit No. 46-2920-88-E) conducted a class III cultural resource survey of a well site and access road and alternate well site and access road for Glen Benfield representing Amoco Production Company. The proposed project areas are situated in San Juan County, New Mexico, on federally owned lands under the jurisdiction of the Farmington Resource Area of the Albuquerque District of the Bureau of Land Management. Previously recorded sites NM-01-1284/3190 and NM-01-1284/3191 were within the proposed project area, in the construction zone of the proposed location and adjacent to the access road. Moving the location to avoid the sites was recommended. The location was moved 2190 feet to the north and 300 feet to the east. A total of 7.57 acres was inventoried. Since no cultural resources were found at the proposed alternate location, no further action is recommended unless subsurface cultural deposits or features are encountered during construction.

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SURVEY OF CULTURAL RESOURCES FOR AMOCO PRODUCTION COMPANY'S PROPOSED FLORANCE P NO. 3 WELL SITE AND ALTERNATE WELL SITE AND ACCESS ROAD SAN JUAN COUNTY, NEW MEXICO

A survey of archaeological and historical resources was conducted for Amoco Production Company's proposed Florance P No. 3 Well Site and Alternate Well Site and Access Road. The proposed locations and access roads are situated on federally owned property under the jurisdiction of the Farmington Resource Area of the Albuquerque District of the Bureau of Land Management.

On June 9 and July 31, 1989, Jamie A. Karlson of Archaeological Consultants accompanied Glen Benfield representing Amoco Production Company to the location.

The inspection was conducted in order to comply with legal provisions contained in the Act for Preservation of American Antiquities of 1906 (34 Stat. 225, 16, U.S.C. 431 et seq.); the National Historic Preservation Act of 1966 (80 Stat. 915, 16 U.S.C. 470 et seq.); the National Environmental Policy Act of 1969 (83 Stat. 852, 42, U.S.C. 431 et seq.); Executive Order 11593; the Archaeological and Historical Preservation Act of 1974 (88 Stat. 174, 16 U.S.C. 469 et seq.); the Archaeological Resources Protection Act of 1979 (93 Stat. 721, 16 U.S.C. 470 et seq.); and the American Indian Religious Freedom Act of 1979 (92 Stat. 469, 42, U.S.C. 1996 et seq.).

The survey was conducted under the terms of the Department of the Interior Antiquities Permit No. 46-2920-88-E. In accordance with these terms, the Farmington Resource Area Office was notified prior to the initiation of field work. A file search was conducted June 9 and July 10, 1989 through the office of the Area archaeologist of the Bureau of Land Management for previously recorded cultural resources located within the proposed project area.

SURVEY METHODS

An area 600 feet x 550 feet around the proposed alternate location, which includes the area of the proposed access road, was examined for surface evidence of archaeological and historical resources which would be subject to direct impacts by preparation of the drilling pad, pits, access road, or by drilling activities. The well pad dimensions 280×230 feet. The proposed pad, a construction zone of 50 feet, and a surrounding buffer zone of 100 feet were examined by the archaeologist walking a series of parallel transects spaced approximately 10 to 12 meters apart, vegetation permitting. An approximate total of 7.57 acres was surveyed, while adjacent areas were given a cursory inspection for cultural resources which might be subject to indirect impacts from construction or drilling activities. No archaeological materials were collected.

RESULTS OF SURVEY

The file search indicated approximately thirteen previously recorded sites within a one-mile radius of the project area. The sites include Anasazi Basketmaker III-Pueblo I pithouses and surface structures, Anasazi campsites and ceramic/lithic scatters; Navajo Gobernador phase campsites; campsites with associated artifact scatters of undetermined cultural affiliation and date; lithic scatter, and an Archaic А site. Sites NM-01-1284/3190 and NM-01-1284/3191 were within the proposed project area. The location of these previously sites was field verified and were found to be in the construction zone of the proposed location, and adjacent to the proposed access Moving the location to avoid the sites was recommended. road. The proposed location was moved 2190 feet to the north and 300 feet to the east to The site nearest the alternate location, NM-01-31581, a avoid these sites. hearth and ceramic scatter, lies 500 feet to the southwest and will not be affected.

No sites currently listed in the <u>National Register of Historic Places</u> are within the proximity of the work area. No surface evidence of archaeological or historical resources was found at the proposed alternate location or along the access route. No evidence of cultural resources in adjacent areas was found which might be subject to indirect impacts from preparation of the well site or drilling activities. Specific data concerning location, terrain, environment, and cultural resources follow.

FLORANCE P NO. 3 WELL SITE AND ACCESS ROAD (Figure 1)

Location:	The proposed well site is located 2290 feet FNL and 1110 feet FEL in the SE ¹ of the NE ¹ of Section 35, Township 30 North, Range 8 West, (Archuleta, New Mexico U.S.G.S. quadrangle map) New Mexico Princi- pal Meridian, San Juan County, New Mexico UTM centerpoint: 13: 264420E 4072360N
Access Alignments:	The proposed access road is approximately 1000 feet long and crosses portions of the NE4 of the SE4 and the SE4 of the NE4 of Section 35, Township 30 North, Range 8 West, from an existing road, UTM coordi- nates: 13: 264420E 4072160N.
Terrain:	The proposed location and access road are situated along the crest of an unnamed ridge between Escarbada Canyon to the west, and Gobernador Can- yon to the north and east. The average elevation of the project area is 6100 feet above sea level.
Flora:	The flora consists of sparse Pinyon-juniper forest at the edge of Big Sagebrush shrublands with grasses, yucca, broom snakeweed, and Mormon tea.
Surface Area:	The soils consist of sand dunes, and sandy loams

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with bedrock exposures. for energy development. The area is currently used

Cultural Materials: Previously recorded sites NM-01-1284/3190 and NM-01-1284/3191 were within the proposed project area, in the construction zone of the proposed location, and adjacent to the proposed access road. The proposed location was moved 2190 feet to the north and 300 feet to the east to avoid these sites.

FLORANCE P NO. 3 ALTERNATE WELL SITE AND ACCESS ROAD

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Location:

The proposed well site is located 230 feet FNL and 900 feet FEL in the NE¹/₄ of the NE¹/₄ of Section 35, Township 30 North, Range 8 West (Archuleta, New Mexico U.S.G.S. quadrangle map), New Mexico Principal Meridian, San Juan County, New Mexico (Figures 1 and 2), UTM centerpoint: 13: 264520E 4073000N.

Access Alignments:

The proposed access road is approximately 100 feet long and crosses portions of the NE¹/₄ of the NE¹/₄ of Section 35 from an existing road from an existing road (UTM coordinates: 13: 264500E 4072960N).

The proposed location and access road are situated in the flood plain in the canyon bottomlands at the confluence of Escarbada Canyon with Gobernador Can-

The average elevation of the project area is

Terrain:

Flora:

The flora consists of extremely dense Big Sagebrush shrublands with grasses and broom snakeweed.

The soils consist of sand and sandy loams. The area is presently used for energy development.

Broken glass, recent hearths, aluminum cans and assorted modern trash extend across the proposed project area.

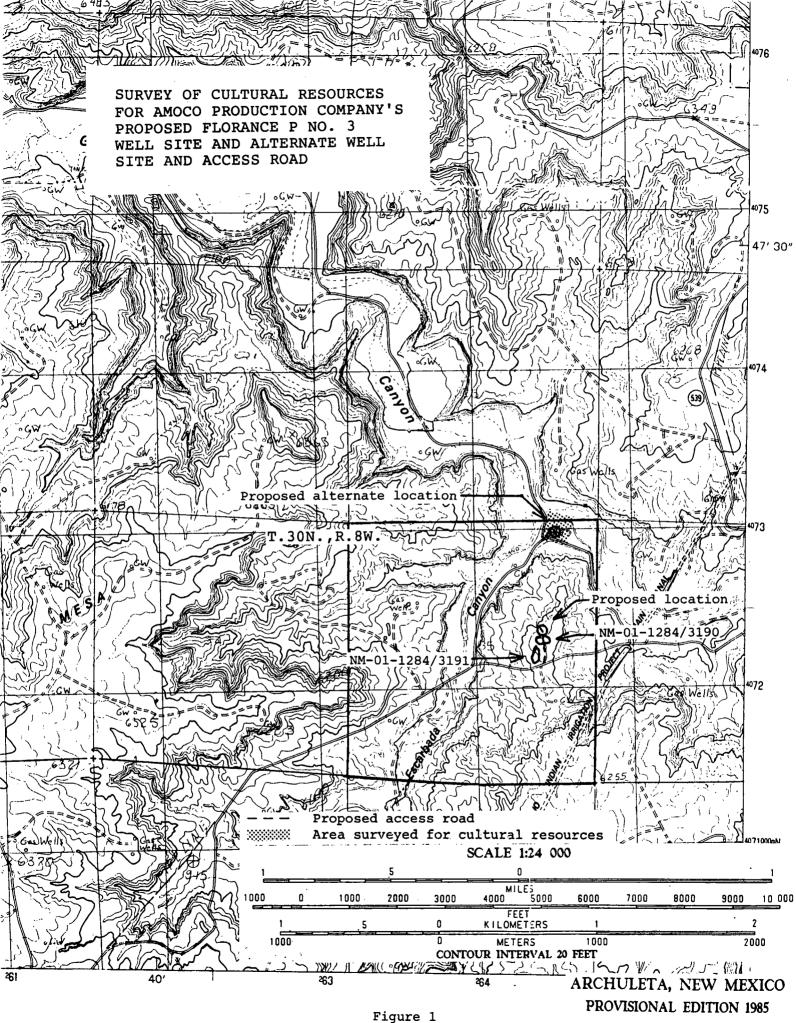
RECOMMENDATIONS

Surface Area:

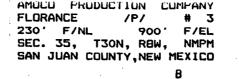
Cultural Materials:

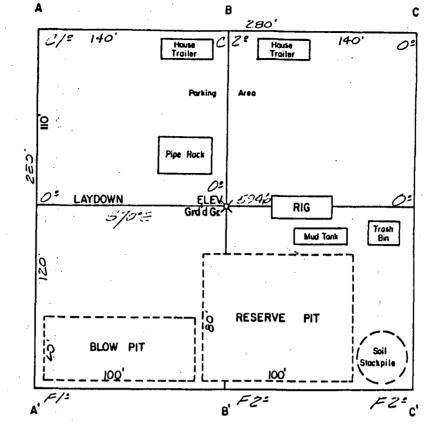
Since no evidence of archaeological or historical resources which would be endangered by well site preparation or drilling activities was found at the alternate location or along the access road, no further action is deemed necessary unless subsurface cultural features or deposits are exposed during construction. Should subsurface archaeological materials be encountered during preparation of the well site or construction of the access road, it is recommended that work be halted in the area of the finds and the Farmington Resource Area archaeologist be notified immediately. Further construction in the area of these finds should be suspended until the materials are examined and evaluated by a qualified archaeologist.

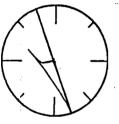
5946 feet above sea level.



36107-G6-TF-024





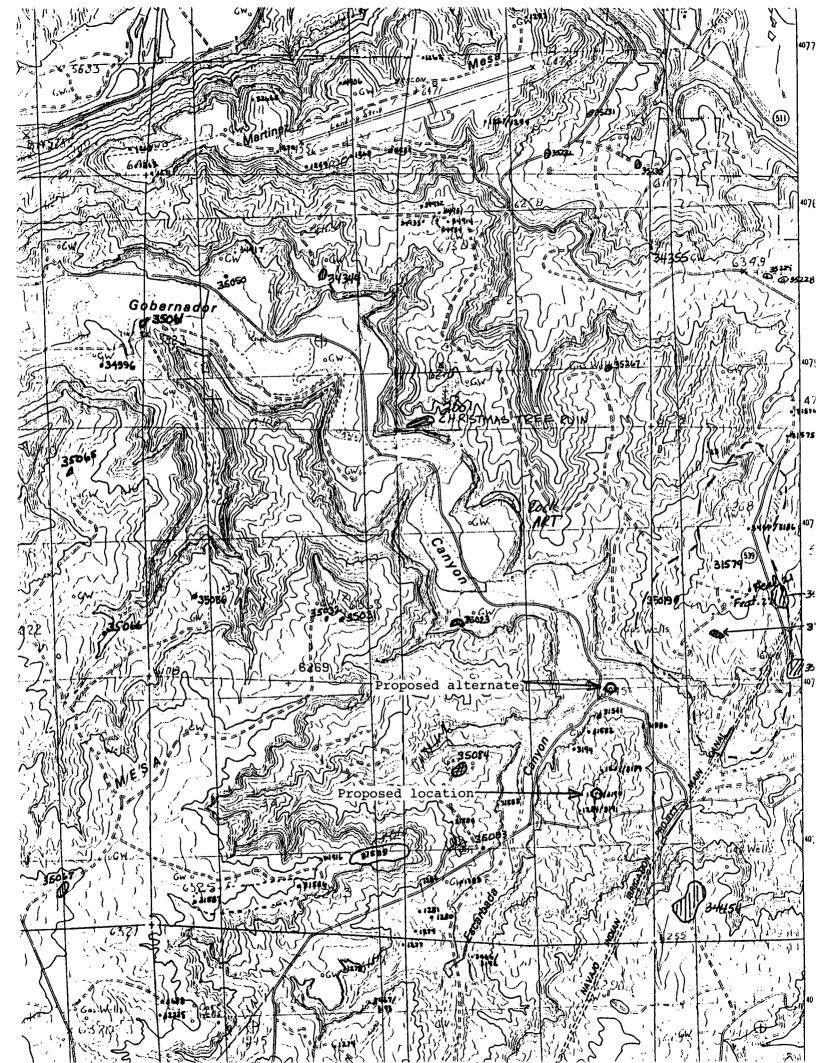


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MERIDIAN OIL

September 22, 1989

New Mexico Oil Conservation Division ATTN: Mr. William LeMay, Director PO Box 2088 Santa Fe. NM 87504

RECEIVED

SEP 2 5 1989

OIL CONSERVATION DIV. SANTA FE

RE: Unorthodox Location Waiver Gartner Gas Com A #1 Section 27, T-30-N, R-8-W San Juan County, New Mexico

Gentlemen:

Enclosed, please find a copy of Amoco's Unorthodox Location Waiver for the referenced well. This waiver has been executed by S.W. Nance, our Regional Engineering Manager.

If further information is needed, please advise.

Very truly your

(Robert J. Hopkins Senior Landman

RJH:ch Enclosure



Amoco Production Company

Denver Region 1670 Broadway P.O. Box 800 Denver, Colorado 80201 303-830-4040

September 6, 1989

Mr. William LeMay, Director New Mexico Oil Conservation Division PO Box 2088 Santa Fe, NM 87504

File: NWA-648-986.511

Request for Administrative Approval Unorthodox Location Gartner Gas Com "A" Well No. 1 Section 27-T30N-R8W Basin Fruitland Coal Gas Pool San Juan County, New Mexico



Amoco Production Company respectfully requests administrative approval for an unorthodox location for the Gartner Gas Com "A" Well No. 1 in the Basin Fruitland Coal Gas Pool. Amoco plans to drill the subject well at a location 2250' FNL and 1960' FEL of Section 27-T30N-R8W. This unorthodox location is necessitated by topographical conditions and the presence of archeological sites covering the orthodox location drilling window in the NE/4 of Section 27. Attached is a plat showing the proposed well location and the topographical conditions in Section 27 and a plat showing ownership of the offsetting spacing units.

A copy of this application will be sent to all offset operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection and return one copy to this office.

Sincerely, W. Hawkins

WAIVER

Meridian Oil Inc.hereby waives objection to AmocoProduction Company's application for an unorthodox locationfor their Gartner Gas Com "A" Well No. 1 as proposed above.By:Steven W. Nance, Regional Engineering ManagerCc:K.J. LundJ.L. Spitler

Affected offset operators - see attached mailing list

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT **OIL CONSERVATION DIVISION** GARREY CARRUTHERS AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 GOVERNOR ONE GOVERNOR ONE CONSERVE LINE (505) 334-8178 Mike Stogner -30-89 .89 Hill Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088 Proposed MC Re: Proposed DHC Proposed NSL_ Proposed SWD Proposed WFX Proposed PMX___ DDZ Gentlemen: I have examined the application dated 19 - 20 - 87CARTIVER GAS COUL A #1 Lease & Well No. for the <u>AMCCo</u> Operator G = 27 - 301 - 800 and my recommendations are as follows: Unit. RD core Yours truly, une Burel