

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

30-039-25393 M

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

April 8, 1994

Merit Energy Company c/o On Site Technologies, Ltd. P.O. Box 2606 Farmington, NM 87499

Attention: Tora Baldwin

Administrative Order NSL-3374

Dear Ms. Baldwin:

Reference is made to your application dated March 14, 1994 on behalf of the operator, Merit Energy Company, for a non-standard oil well location for the proposed Jicarilla "K" Well No. 10E to be drilled 1370 feet from the South line and 1440 feet from the West line (Unit K) of Section 1, Township 25 North, Range 5 West, NMPM, Undesignated West Lindrith Gallup-Dakota Pool, Rio Arriba County, New Mexico. The SW/4 of said Section 1 shall be dedicated to the well forming a standard 160-acre oil spacing and proration unit for said pool.

By the authority granted me under the provisions of Rule 5 of the Special Rules and Regulations for the West Lindrith Gallup-Dakota Oil Pool, as promulgated by Division Order No. R-4314-A, the above-described unorthodox oil well location is hereby approved.

Sincerely,

William J. LeMay

Director

WJL/MES/amg

cc: Oil Conservation Division - Aztec

US Bureau of Land Management - Albuquerque

Bureau of Indian Affairs - Dulce (Attention: Raymond Frost)

# Ernie Busch

From:

Ernie Busch

To:

Mike Stogner

Subject:

MERIT ENERGY (NSL) Thursday, April 07, 1994 2:01PM

Date: Priority:

High

WELL NAME: JICARILLA K #10E

LOCATION:

K-1-25N-05W

FOOTAGE:

1440' FWL; 1370' FSL

RECOMMEND: APPROVAL

CMD : OG6C101

OCD U/L

ONGARD C101-APPLICATION FOR PERMIT TO DRILL

03/26/94 11:45:10 OGOMEV -EMB4

OGRID Idn Opr Name, Addr : AMOCO PRODUCTION CO :

778 API Well No: 30 45 25820 APD Status(A/C/P): A

Aprvl/Cncl Date : 12-20-1977

PQ BOX 21178

Prop Idn: 1217 WOOD GAS COM A

Well No: 001

U/L Sec Township Range Lot Idn North/South East/West --- --- ----Surface Locn: 2 4 31N 10W FTG 1155 F N FTG 1745 F E : B API County : 45

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): G Cable/Rotary (C/R) : R Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 5833

State Lease No: Multiple Comp (Y/N) Prpsd Depth : 2700 Prpsd Frmtn : CEQAR HILL FRUITLAND BASAL COAL : N

M0015: Table update is successful. PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM PF07 PF08 PF09 COMMENT PF10 \$102 PF11 HISTORY PF12



March 14, 1994

Mr. Mike Stogner New Mexico Oil & Gas Conservation Division P.O. Box 2088 Sante Fe, New Mexico 87504-2088 DECEIVED MAR 2 5 1994

OIL CON. DIV.

Re: Merit Energy
Jicarilla K #10-E
Section 1, Township 25 North, Range 5 West
1440' FWL & 1370' FSL
Rio Arriba County, New Mexico

Dear Mr. Stogner:

On Site Technologies, Ltd. represents Merit Energy as their agent for permitting and on site drilling operations. During a regular permitting procedure for the above-referenced subject, it was called to our attention by the Bureau of Land Management ("BLM") that the Jicarilla K 10E was in an unorthodox location and that the New Mexico Oil and Conservation Division ("NMOCD") required administrative approval prior to the commencement of drilling operations.

In reference to memorandum dated March 21, 1990, from William J. LeMay, Director, the following information is required for administrative approval for unorthodox locations:

- The proposed well location is located on BLM land on the Jicarilla Apache Reservation. An on site inspection has been conducted and a copy of the Notice of Staking and the Application for Permit to Drill are attached as Exhibit A and B repectively.
- A copy of the C-102 showing the well location is attached as Exhibit C.
- A land plat is also attached as Exhibit D showing the offset operators.
- A 7.5 minute quad topographic map is attached as Exhibit E showing the proposed well location, terrain features, access roads, the location of the archeological sites identified in the archeologist survey, the surface locations highlited in green showing that the surface conditions also prevent the location of an orthodox location, and the orthodox drilling windows.

Mike Stogner NMOCD Sante Fe Merit Energy-Unorthodox Location Request Page 2

- The reason for the request is due to archeological findings in the original location staked (highlited in pink), to minimize surface disturbance and due to terrain as indicated on the topo map. See attached letter from Gifford Vellarde, Archeologist (Exhibit F).
- Attached are the letters informing the offset operators of the unorthodox location and the signed waivers including a copy of return receipt cards indicating date of receipt of notice.

If you have any questions regarding the required information, please feel free to contact either myself or Tora Baldwin at your earliest convenience.

On Site Technologies, Ltd. hereby certifies that the information is true and correct and that the offset operators have been notified.

Joé A. Wilbanks

Engineering Manager

On Site Technologies, Ltd.

Agent for Merit Energy

cc: -Bureau of Land Management Rio Puerco Resource Area

-Bureau of Indian Affairs - Dulce, New Mexico

-Ernie Busch - NMOCD Aztec, New Mexico -Merit Energy- Robert Matejek

# EXHIBIT

ŧ

NOS Format

NOTICE OF STAKING		6. Lease Number	
	(Not to be used in place of		
Application for Permit to D	rill Form 3160_3)		
1. Oil well X Gas well	Other (Specify)	7. If Indian, Allottee or Tribe Name	
2. Name of Operator		8. Unit Agreement Name	
MERIT ENERGY		- dire Agreement Name	
3. Name of Specific Contact	Person	9. Farm or Lease Name	
DAN MORRISON		JICARILLA "K"	
4. Address & Phone No. of O P.O. BOX 2606	perator or Agent	10. Well No.	
FARMINGTON, NM 87499		#10E	
5. Surface Location of Well		ll. Field or Wildcat Name	
pit. b) Topographical (	sions, and reserve or other accept- ng location, access	Wilder Gallup Dakota  12. Sec., T., R., M., or Blk and Survey or Area  940' FSL & 1,650' FWL SECTION 1, T25N, R5W	
TO BE FAXED			
15. Formation Objective(s)	16. Estimated Well Depth	13. County, Parish 14. State or Borough	
DAKOTA	7600'	770 1777	
17. Additional Information ( name, address, and telep	as appropriate; mus hone number)	RIO ARRIBA COUNTY NEW MEXICO	
And I -		· .	
18. Signed TORA BALDWIN	Title ENG	INEERING TECHDate 9-9-93	

Note: Upon receipt of this Notice, the Bureau of Land Management (BIM) will schedule the date of the onsite predrill inspection and notify you accordingly. The location must be staked and access road must be flagged prior to the onsite.

Operators must consider the following prior to the onsite:

- a) H<sub>2</sub>S Potential
- b) Cultural Resources (Archeology)
- c) Federal Right of Way or Special Use Permit

# EXHIBIT "B"

Form 3160-3 (December 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPL

(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

SECOND STAGE: Lead: 450 sx Pozmix, Tail: 50 sx Class B

	DEDADTMEN	IT OF THE	INTEDIAD		December 51, 1991
	DEPARTMEN	II OF THE	INIERIOR		5. LEASE DESIGNATION AND SERIAL NO.
	BUREAU O	F LAND MANA	GEMENT		NM 1073
APPI	LICATION FOR I	PERMIT TO	DRILL OR DEEPE	N	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Is. TYPE OF WORK					IICARILLA
D	RILL 🖾	DEEPEN			7. UNIT AGREEMENT NAME
b. TYPE OF WELL			SINGLE [ MI	יין בוינונו	
OIL	WELL S OTHER			NE L	8. FARM OR LEASE NAME, WELL NO.
2. NAME OF OPERATOR	MERIT ENERGY	Y	12221 MERIT	DRIVE	JICARILLA K
	(214) 325-8	377	Dallas, Texa	s 75251	9. AM WELLING.
8. ADDRESS AND TELEPHONE N	ON SITE TECH	HNOLOGIES,	LTD P.O. BOX	2606	#10E
	(505) 325-8	786	FARMINGT	ON NM	10. PIBLO AND POOL, OR WILDCAT
4. LOCATION OF WELL (	(Report location clearly as	d in accordance wi	th any State requirements.		vacarion Gallup/Dakota
and williamer.	1440 FWL AN	D 1370 FSL	,		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
At proposed prod. s	one				SEC. 1, T25N, R5W
14. DIRTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POS	T OFFICE*		12. COUNTY OR PARISH 18. STATE
APPROXIMATE	ELY 40 MILES I	NORTH OF	COUNSELORS. N	М	RIO ARRIBA NM
10. DISTANCE FROM PRO LOCATION TO NEARS	PURED*		16. NO. OF ACRES IN LEASE	17. NO.	OF ACRES ASSIGNED
PROPERTY OR LEADER	LINE, PT.	1370'	2558.4		9.6
18. DISTANCE FROM PRO	OPOSED LOCATION*	.3/0	19. PHOPOSED DEPTH		ARY OR CABLE TOOLS
TO NEAREST WELL,	DRILLING, COMPLETED,	850'	7465'	RO	TARY
21. ELEVATIONS (Show W	rbether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START
6930' GR	}				UPON APPROVAL
23.		PROPOSED CASI	NG AND CEMENTING PRO	BRAM	
SIZE OF HOLE	ORADE, \$12E OF CASHO	WEIGHT PER P	OOT BETTING DEPTH		QUANTITY OF CEMENT
12-1/4"	K55	24#	350'	450	sx Class B
7-7/8"	K55	_ 15.5#	7465'	LEAD_	230 sx 50/50 Pozmix
•				TAIL	120 sx Class B

SEE ATTACHED DRILLING PROGRAM.

19XED Ja A Willames	TITLE	Agent MERIT	FNFRGY	COMPANY	DATE	10/8/93
This appear for Federal or State office use)		<del></del>	· · · · · · · · · · · · · · · · · · ·			
ERNIT NO.		APPROVAL	DATE			
PRIMIT NO	ant holds legal or equitab					icant to conduct operati

#### SELF CERTIFICATION STATEMENT

Be advised that Merit Energy Company is considered to be the operator of Well No. Jicarilla "K" 10E, NESW 1/4, Sec. 1, T25N, R5W, Lease No. NM 1073, Rio Arriba County, New Mexico and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond Coverage for this well is provided by Irrevocable Letter of Credit No. LASB-21843 by Bank of America, Los Angeles, California. (Principal Merit Energy Company) via surety consent as provided for in 42CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provision of 42CFR 3106.7-2 continuing responsibility are met.

#### A. Drilling Program

1. Surface Formation and Estimated Formation Tops:

Nacimento	550
Pictured Cliffs	3,264
Chacra	4,164
Cliffhouse	4,950
Gallup	6,570
Sanastee	7,080
Greenhorn	7,380
Graneros	7,440'
Dakota	7,465'

2. Estimated Depth at which Oil, Gas, Water or Other Mineral-Bearing Zones are Expected to be Encountered:

Expected Oil Zones:	Formation N/A	<u>Depth</u>
Expected Gas Zones:	Picture Cliffs	3,264'
-	Chacra	4,164'
	Gallup	6,570'
	Dakota	7,465'
Expected Water Zones:	Nacimento	550'
Expected Mineral Zones:	N/A	

All fresh water and prospective valuable minerals encountered during drilling will be recorded by depth, cased and cemented. All oil and gas shows will be tested to determine commercial potential.

# 3. Pressure Control Equipment:

BOP's to be used are detailed in the attached diagram labeled Exhibit "A". Merit Energy Companies minimum specifications for pressure control equipment are as follows:

A. Below 8-5/8" surface casing - 10" 3000 psi wp double gate BOP.

Testing of BOP - All Blow Out prevention equipment will be tested upon installation. This will include casing, casing head and all related equipment and connections associated with blow out prevention and/or control.

Testing will be to the lesser of the following:

- (1) Full manufacturer's working pressure rating of equipment;
- (2) 70% of minimum internal yield pressure of casing; or
- (3) 1 psi/ft. of last casing string depth.

All BOP's will be checked each trip for physical operation. Morning tower driller will also check operation components of BOP, test operation of BOP and record on Driller's Log.

# 4. Casing Program and Auxiliary Equipment:

<u>Purpose</u>	<b>Depth</b>	Hole Size	<u>O.D</u>	Weight	Grade	Type
Surface	0-350'	12-1/4"	8-5/8"	24#		ST&C
Production	0-7465'	7-7/8"	5-1/2"	15.5#	K55	

# **Proposed Cementing Program:**

Surface casing will be cemented to surface as follows:

<u>Surface</u>	Type and Amount
0-350'	450 sx of Class B with 2% CaCl mixed at 15.6 ppg, 1.2 yield, with 100% excess or sufficient to circulate to surface.

Production	Type and Amount
0-7465'	Stage 1. Lead - 230 sx 50/50 pozmix with .25 lb/sk cellophane and 6.25 lb/sk gilsonite and 6% halad 322 and 6% gel mixed at 11.3 ppg, 2.63 yield.  Stage 1-Tail 120 sx Class B with 8% Halad 322 mixed at 15.8 ppg with 1.15 yield. DV Tool at +,-4800.
	Stage 2 Lead - 450 sx Class B 50/50 pozmix with 25 lb/sk and 6% Gel mixed at 11.3 ppg yield 263 cubic ft/sk.  Stage 2 Tail - 50 sx Class B mixed at 15.8 ppg, yield 1.14 cubic ft/sk.

After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe, except that in no case shall test be initiated until the cement has been in place at least 12 hours. WOC time shall be recorded in the driller's log.

# 5. Mud Program and Circulating Medium:

<u>Depth</u>	Mud Type	Mud Wt	<u>Vis</u>	Fluid Loss
0-350'	Gel/lime	8.4-8.6	28-45	N/C
350-3000'	Gel/lime	8.4-8.6	28-32	N/C
3000-TD	Gel/lime	8.4-8.5	35-40	6-10

6. Coring, Logging and Testing program: This well will be evaluated on the basis of induction Electric Survey, Gamma Ray, Compensation Density, Neutron, Sonic and Caliper surveys. Cased hole logs will consist of CCL and Cement Bond Logs and Gamma Ray.

# 7. Abnormal Conditions, Bottom Hole Pressures and potential hazards:

Bottom hole pressure gradient is 8.45#/gal - .440 psi/ft. We will prepare for drilling problems by controlling solids and mud weight.

#### 8. Anticipated Starting Dates and notifications of Operations:

As soon as permitted.

#### B. THIRTEEN-POINT SURFACE USE PLAN

#### 1. Existing Roads

Existing Roads - The proposed location is situated within an existing road system which is accessed from State Road 262.
 Roads will be maintained in the same or better condition than presently exists.

Travel to 27 mile marker on Highway 537 from Highway 44. Cross Tapocito Creek, take 1 left. travel 6 miles on J64, turn 1 left on dirt road. Go past Gas Co. of New Mexico Compressor Station. 2.4 miles to proposed location.

b. Plans for improvement and/or maintenance of existing roads: roads will be maintained in the same or better condition than presently exists.

#### 2. Planned Access Roads:

a. Access to the location will be along an existing unimproved road. There will be no turn outs, culverts, bridges or foreign surface materials required.

The access (including any existing non-county) road will be rehabilitated or brought to Resource (Class III) Road Standards by meeting the following minimum design requirements within sixty (60) days of completion of drilling operations:

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the Area Manager in advance.

The topsoil from the access road will be reserved in place. Trees and brush removed from building of the road will be stacked next to road to be used in rehabilitation.

#### 3. <u>Location of Existing Wells:</u>

All wells within a one mile radius are shown on the attached map "B".

4. All permanent above-ground facilities (6 months or longer) will be painted a non-reflective (Juniper Green) color to blend into the surrounding area. The exception being that Occupation Health and Safety Act Rules and Regulations are to be complied with where special safety colors are required.

If a tank battery is constructed on this location it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the largest tank; all load lines and valves will be placed inside dike surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7-5 and ONSHORE OIL AND GAS ORDER NO. 3 - SITE SECURITY will be adhered to.

Gas measurements will be conducted in accordance with the ONSHORE OIL AND GAS ORDER NO. 5 - GAS MEASUREMENT and 43 CFR 3162.7-3.

Gas meter runs for each well will be located within five hundred (500) feet of the well head. The gas flowline will be buried from the well head to the meter and downstream for the remainder of the pad. meter runs will be housed and/or fenced.

Oil measurement will be conducted in accordance with <u>ONSHORE</u> <u>OIL AND GAS ORDER NO. 4</u>; <u>OIL MEASUREMENT</u> as of the effective of August 23, 1989 and 43 CFR 3162.7-2.

#### 5. Location and type of Water Supply:

All water needed for drilling purposes will be obtained from: water well site located at Section 28, T25N, R4W; Conoco #1 & 2 which will be hauled by private trucking from the site.

Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of that water.

#### 6. Source of Construction Material:

Pad construction material will be obtained from on site and in place materials. Twelve (12) inches of top soil will be reserved for future rehabilitation and will be stock piled along the north edge of location. Brush and trees that are removed in order to build the proposed location will be stockpiled on the east end of the location.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.

#### 7. Methods of Handling Waste Disposal:

The reserve pit will be constructed with at least 1/2 of the capacity in cut material.

Three sides of the reserve pit will be fenced within 24 hours after completion of construction and the fourth side within 24 hours after drilling operations cease with four (4) strands of barbed wire, or woven wire topped with barbed wire to a height of not less than four (4) feet. The fence will be kept in good repair while the pit is drying.

No liquid hydrocarbons (i.e. fuels, lubricants, formation) will be discharged to the reserve pit.

No chrome compounds will be on location.

All garbage will be placed in a garbage receptacle and hauled to a county refuge facility. There will be no burning on location.

Produced waste water will be confined to the reserve pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to NTL-2B.

#### 8. Ancillary Facilities:

Chemical toilets will be provided and maintained during drilling operations.

#### 9. Well Site Layout:

The reserve pit will be located: In the Northeast corner of pad. (See attached wellsite layout plat Map "C")

#### 10. Plans for Restoration of Surface:

- a. Within 24 hours of completion of drilling, the location and surrounding area will be cleared of all debris, materials, and junk not required for production.
- b. As soon as the reserve pit has dried or within eighteen months (18 months.) whichever is least, all areas not needed for production. (including access road) will be filled in, re contoured to approximately natural contours and as much top soil as was removed) replaced leaving enough for future restoration. The remaining top soil (if any) will be stabilized and seeded in place. If the well is a dry hole, the location and access road will be rehabilitated in total.
- c. The area will be seeded between December 1, 1993 and April 4, 1994 with the recommended mixture by the BIA.

d. Seed will be broadcast followed by a light harrowing. If the seed is drilled, the seeding rate can be reduced by 25% and harrowing can be eliminated.

After seeding the trees and brush will be scattered over the sight.

Scarefire, riping, water bars or other soil treatments may be required by the authorized officer at the time, depending on the soil and water conditions at the time of rehabitation.

#### 11. Surface and Mineral Ownership:

Surface Disposition- Jicarilla Apache Tribe Mineral Ownership- Jicarilla Apache Tribe

#### 12. Other Information:

There will be no deviation from the proposed drilling and/or work over program without prior approval from the District Manager. Safe drilling and operation practices must be observed. All wells, whether drilling, producing, suspended or abandoned and/or separate facilities, will be identified in accordance with 43 CFR 3162.6.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.6.

The dirt contractor will be provided with an approved copy of the surface use plan.

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly distributing historic or archaeological sites, or for collecting artifacts. If historical or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

Whether the materials appear eligible for the National Register of Historic Places; the mitigation measures the operator will likely have to undertake before the site can be used (assuming instu preservation is not necessary); and a time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic

Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expenses of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will then be allowed to resume construction.

This permit will be valid for a period of one (1) year from the date of approval. After permit termination, a new application will be filed for approval for any future operations. If at any time the facilities located on public lands authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligation determined by the authorized officer.

## 13. Lessee's or Operator's Representative and Certification:

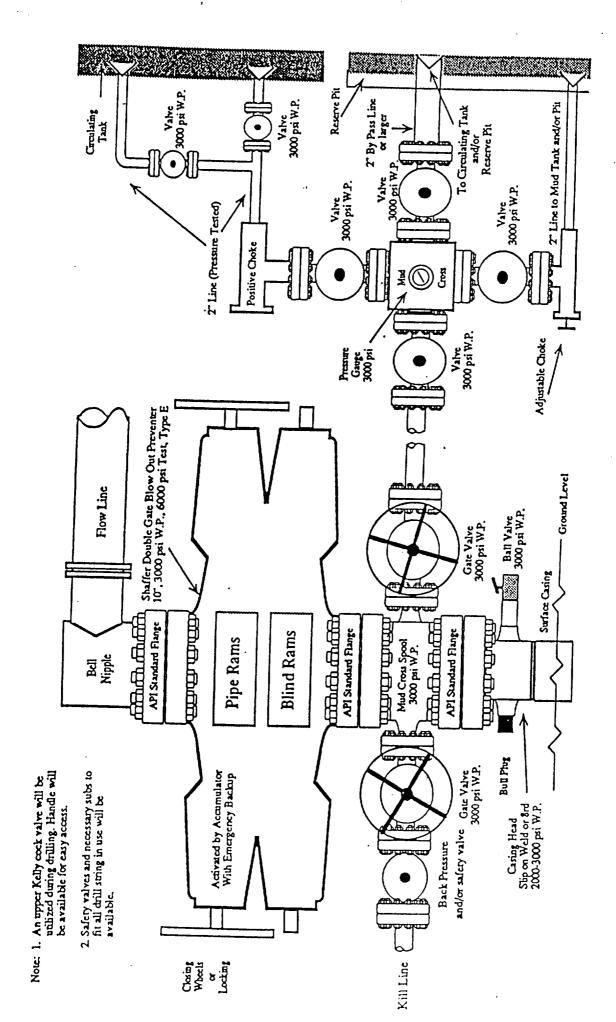
#### Representative/Agent:

Joe Wilbanks
On Site Technologies, Limited
3005 Northridge, Suite F
Farmington, New Mexico 87401
(505) 325-8786 Office
(303) 247-9210 Home

#### **CERTIFICATION**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions that exist; that the statements made in this plan are, to the best of my knowledge. true and correct; and the work associated with operations proposed herein will be performed by Merit Energy Company and its contractors in conformity with this plan, and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

(505) 325-8786 Office (303) 247-9210 Home



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the

# JICARILLA APACHE ARCHAEOLOGICAL SERVICES

AN ARCHAEOLOGICAL SURVEY OF TWO WELL LOCATIONS IN RIO ARRIBA COUNTY, NEW MEXICO, CONDUCTED FOR MERIT ENERGY COMPANY

REPORT CR-93-402

JICARILLA APACHE TRIBAL RESOLUTION #83-581

**SEPTEMBER 27, 1993** 

Dulce, new mexico 87528

Materials gathered not to be reproduced without permission from the author or the Jicarilla Apache Tribal Council.

K-10-E

K-11-E

A Cultural Resources Inventory Prepared by Gifford Velarde, CEO, Jicarilla Apache Archaeological Services.

#### ABSTRACT

This report details the findings of a Class III Pedestrian Survey of two well locations conducted for Merit Energy Company. Approximately 2.40 acres of land were surveyed for cultural resources. No significant cultural resources were located during archaeological investigation.

Archaeological clearance is recommended.

The survey was conducted by:

Jicarilla Apache Archaeological Services P.O. Box 919 Dulce, NM 87528 Phone: (505)759-3396

The survey was conducted under:

Jicarilla Apache Tribal Resolution #83-581

The survey was conducted for:

Joe A. Wilbanks
On Site Technologies, LTD.
P.O. Box 2606
Farmington, NM 87499

and

Dan Morrison Merit Energy Company 1221 Merit Drive, Suite 500 Dallas, Texas 75251

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## INTRODUCTION

On September 27, 1993, Gifford Velarde, from the Jicarilla Apache Archaeological Services, conducted a Class III Pedestrian Survey of two well locations for Merit Energy Company.

Mr. Joe A. Wilbanks, Engineering Manager for On Site Technologies, LTD, was present for the inspection. Mr Brian Wood, environmental specialist, was also available for the day's activities. Mr. Gerald Huddleston, surveyor, was on hand to change any legal measurement.

The proposed projects are located north of Lapis Point on the southern half of the Jicarilla Apache Reservation.

#### METHODOLOGY

A 5-10 meter zig-zag pattern was used to survey the area. A record search of previously recorded sites on or near the proposed projects was completed.

#### RECORDS SEARCH

LANO 16489

A ceramic scatter representing a Navaho tradition in the 1693-1753 period.

## PROJECT LOCATIONS

Merit Energy Company - K-10-E

Land Jurisdiction: Jicarilla Apache Tribe

Legal Description: The proposed project is in the SW 1/4 of the NE 1/4 of the SW 1/4 of

Section 1, Township 25 North, Range 5 West, N.M.P.M., Rio Arriba

County, New Mexico. The well is 1370 FSL & 1440 FWL.

Elevation: 6920'

UTM Coordinates: Zone 13: 293,520 mE; 4,033,390 mN (well stake)

Actual Project Area: 300' x 175'

TOTAL: 1.20 acres

Actual Survey Area: 300' x 175'

TOTAL: 1.20 acres

Access: No access required.

# Physiography & Environmental Setting:

The proposed project is found on a northern lower mesa bench. The many small washes on the bench direct water to the north. The soil is rocky. A sandy loam is also present. Vegetation on this northern bench consists of sage mountain muhly, bitterbrush, mountain mahogany, juniper, and pinon.

## Cultural Resources:

Broken brown bottles located alongside a modern hearth were the only cultural resources.

## Recommendations:

Archaeological clearance is recommended.

Merit Energy Company - K-11-E

Land Jurisdiction: Jicarilla Apache Tribe

Legal Description: The proposed project is in the SE 1/4 of the NW 1/4 of the NE 1/4 of

Section 2, Township 25 North, Range 2 West, N.M.P.M., Rio Arriba

County, New Mexico. The well is 850 FNL & 1800 FEL.

Elevation: 6640'

**UTM Coordinates:** 

Zone 13; 291,585 mE; 4,034,370 mN (well stake)

Actual Project Area: 300' x 175'

TOTAL: 1.20 acres

Actual Survey Area: 300' x 175'

TOTAL: 1.20 acres

Access: No access required.

# Physiography & Environmental Setting:

The proposed project is found at the base of the mesa. This hill slope drains water towards the northwest. The soil is mostly disturb being adjacent to an existing well. The vegetation consists of sage, rabbitbrush, Indian ricegrass, mountain muhly, and four-wing saltbush.

## Cultural Resources:

Modern trash from a recent drilling operation were encountered during archaeological survey.

## Recommendations:

Archaeological clearance is recommended.

#### SUMMARY

4

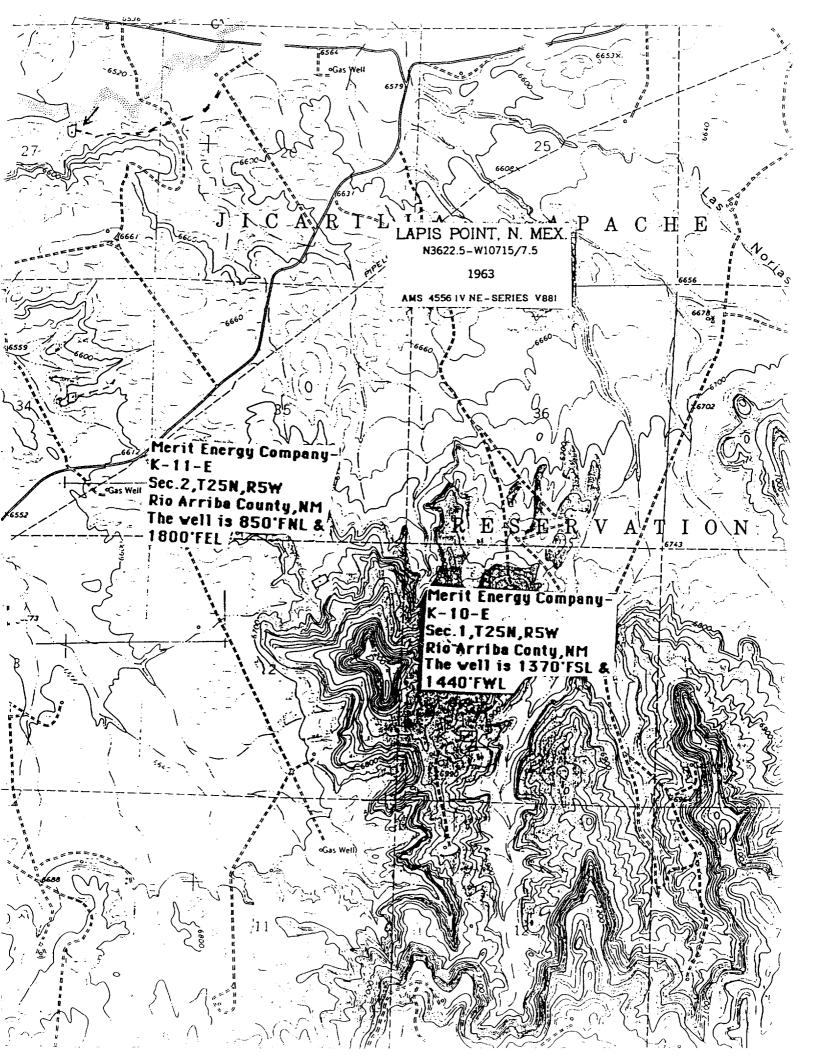
The archaeological clearance for Merit Energy Comany's two well locations uncovered no significant cultural resources. Access roads to both proposed wells are existing. Archaelogical clearance is recommended. Final clearance is the perogative of the Area Archaeologist.

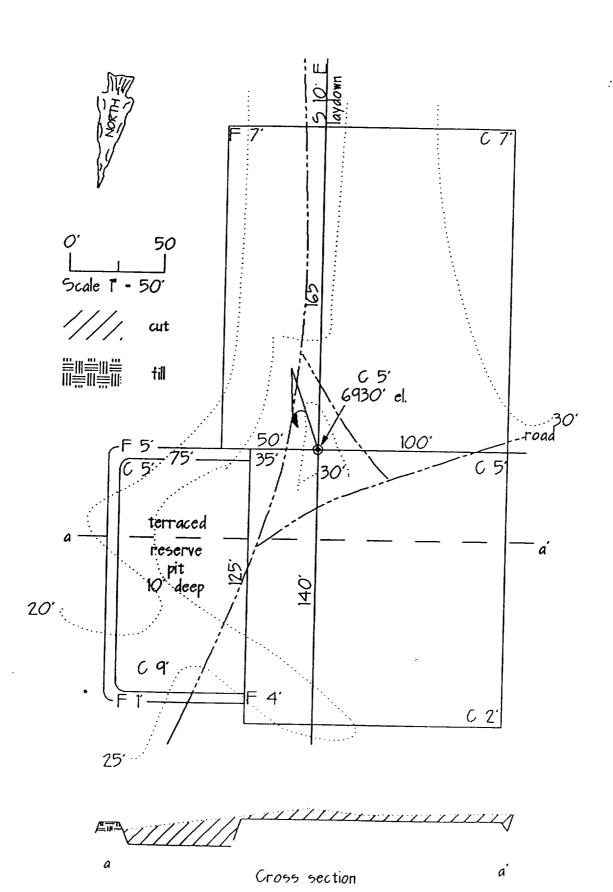
#### **BIBLIOGRAPHY**

Museum of New Mexico

1986

Archaeological Records Management System. Laboratory of Anthropology, Santa Fe, New Mexico.





# State of New Merico TEY, Mancras and Natural Resources Depart

Form C-102 Revued 1-1-59

DISTRICT! P.O. But 1960, Hobbe, NM 88240

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088.

P.O. Drawer DD, Artesia, NM 88210

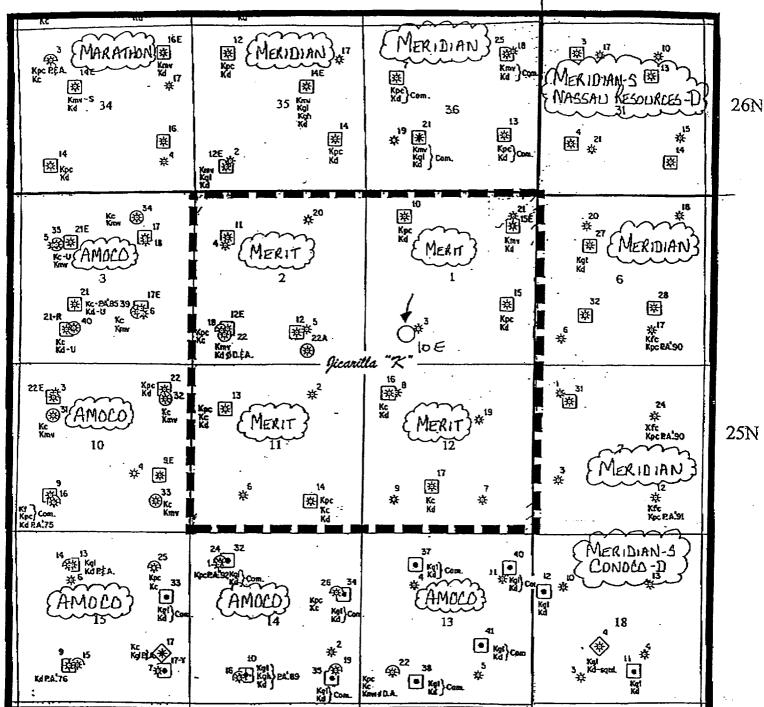
DISTRICT

Operator

DISTRICT III
1000 Ro Britos Rd. Affec, NM 17410

WELL LOCATION AND ACREAGE DEDICATION PLAT
 All Distances must be from the outer boundaries of the section.

MERIT ENERGY COMPANY  Letter Section 1 Township 25 N.	JICARILLA	K-10-E
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If answer is "no" list the owners and tract descriptions which this form if necessary.	inance actually peces cooreoliquical (A	lee reverse side of
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or until a non-standard unit, eliminating such interest, has been	n approved by the Division.	a cherwise)
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		Significe A MULTIN
1.		JOE A. WILBANKS
	i	Printed Name
		lagent
		Position
	<b>i</b> .	ON SITE TECHNOLOGIES
	i	Company 10-8-93
		Date
	·	
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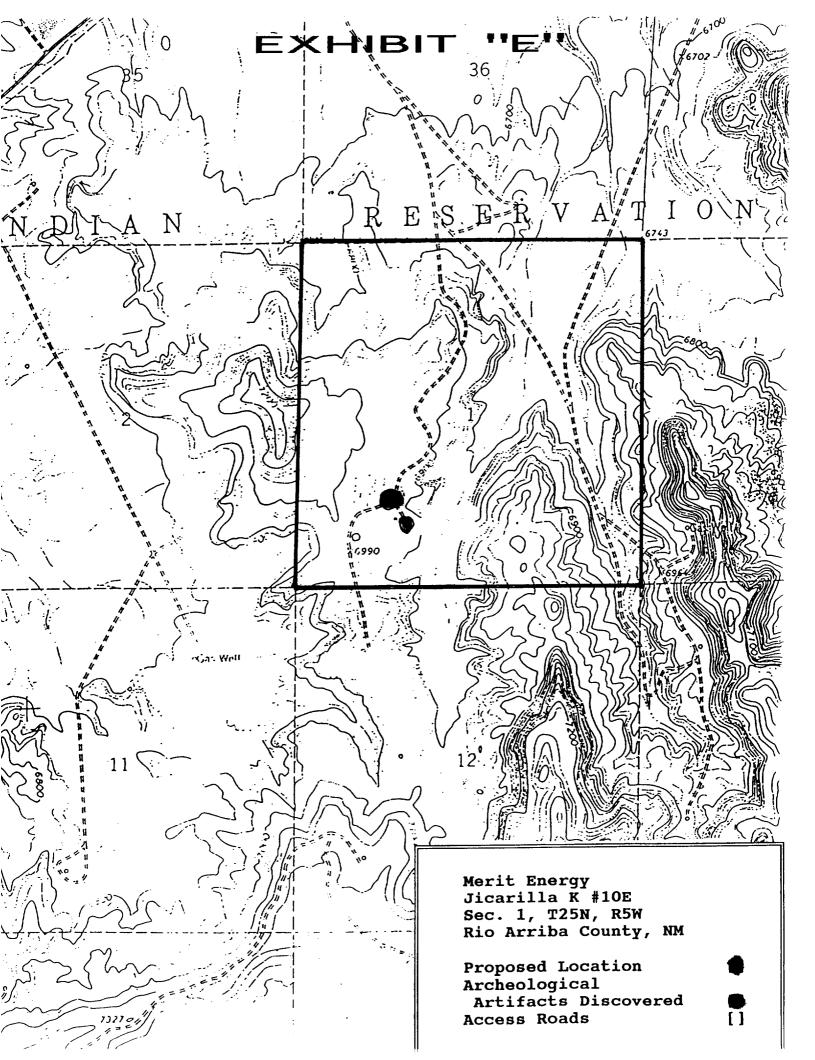
MERIT ENERGY COMPANY

12222 MERIT DRIVE, BUTE 1500

DALLAD, TEXAB 75251

OWNERSHIP MAP JICARILLA "K" LEASE Rio Arriba County, NM

G.A. Jenner (1/94)



# EXHIBIT "F"

Jicavilla Apache Archaeological Services p. Sax 919 Sulce, KM 87528 (505) 759-3396

December 21, 1993

Joe Wilbanks
On Site Technologies, LTD.
P.O. Box 2606
Farmington, NM 87499

Dear Mr. Wilbanks.

On September 27, 1993, during the archaeological inspection of K-10-E for Merit Energy Company, a site of importance was identified. The site was within the project limits. The proposed project (K-10-E) was moved east to avoid all cultural resources. This moved is in conflict with the state's policy for legal locations.

The site was approximately 80 x 60 meters (80m x 60m). It consists of a structure, chipped stone and ceramics. The site is from the Refugee Period (A.D. 1680-1750). The site has been disturb by drilling activity due to it's proximity to an existing well.

Additional information about the site would have to wait due to snow cover.

I hope this information will expedite your permit to drill.

Sincerely,

Gifford Velarde,

C.E.O., J.A.A.S.

something to you! We can bring it back!	Article No.  Todays B 1 0 1 Gender's 87497  Date L B 1 0 Article with  Article Requiring  Signature at Time
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Or, You Can: (1) call for redelivery; (2) pick up article at post office after date time_(Bring this notice & D)	Delivery Notice/Reminder/Receipt PS Form 3849, July 1992
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PS Form 3883, April 1988

\$U.S.G.P.O. 1989-233-093



March 03, 1994

Mr. Van Goebel Meridian Oil & Gas P.O. Box 4289 Farmington, New Mexico 87499

> Re: Merit Energy Jicarilla #10E

Section 1, T25N, R5W

Rio Arriba County, New Mexico

Dear Mr. Goebel:

The following is additional information you requested regarding the unorthodox location Merit Energy is applying for:

- The well is located in Section 1, Township 25 North, Range 5 West in Rio Arriba County, New Mexico on the Jicarilla Apache Reservation.
- The proposed depth is 7465'.
- The application for the unorthodox location is due to the finding of archeological artifacts at the original location.
- The Jicarilla 10E is a Dakota development well.

I apologize for the lack of information in the original letter, if for some reason you need additional time to review the information, please contact me and I will handle the situation. Thank you for your assistance.

Very touly yours,

TorazBaldwih

Engineering Technician
On Site Technologies, Ltd.
Agent for Merit Energy

cc: Mike Stogner - OCD Sante Fe Nassau Resources, Inc. Merit Energy



Via Certified Mail
PP309774374
Return Receipt Requested

February 14, 1994

Ms. Fran Perrin Nassau Resources, Inc. P.O. Box 809 Farmington, New Mexico 87499

Re: Merit Energy

1440 FWL, 1370 FSL Sec. 1, T25N, R5W

Río Arriba County, New Mexico

Dear Ms. Perrin:

Merit Energy is applying for administrative approval for an unorthodox location at the above mentioned site. If you as an offset operator have no objections to the proposed location, please sign the waiver at the bottom of this page and return one copy of the signed document to the NMOCD office in Sante Fe, New Mexico and the original to On Site Technologies, Ltd. For your convenience, I have enclosed self-addressed stamped envelopes.

If you have any questions or comments regarding the proposed, please feel free to contact either Joe A. Wilbanks, or myself at your earliest convenience.

Tora Baldwin On Site Technologies, Ltd. Agent for Merit Energy		
enclosures		
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TITLE:		
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Via Certified Mail PP309774373 Return Receipt Requested

February 14, 1994

Mr. Mark Ellis Meridian Oil & Gas P.O. Box 4289 Farmington, New Mexico 87499

Re:

Merit Energy

1440 FWL, 1370 FSL Sec. 1, T25N, R5W

Rio Arriba County, New Mexico

Dear Mr. Ellis:

Merit Energy is applying for administrative approval for an unorthodox location at the above mentioned site. If you as an offset operator have no objections to the proposed location, please sign the waiver at the bottom of this page and return one copy of the signed document to the NMOCD office in Sante Fe, New Mexico and the original to On Site Technologies, Ltd. For your convenience, I have enclosed self-addressed stamped envelopes.

If you have any questions or comments regarding the proposed, please feel free to contact either Joe A. Wilbanks, or myself at your earliest convenience.

Joe A. Wildanks, of myself at your earli	lest convenience.		
Very truly yours,			•
Tora Baldwin On Site Technologies, Ltd. Agent for Merit Energy			
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