



Daggett Surveying, Inc.

R. HOWARD DAGGETT
Registered Land Surveyor

P.O. Box 2789
Farmington, New Mexico 87499-2789
505-326-1772

New Mexico License
No. 9675

August 2, 1990

Examiner	_____
Case No.	10039
EXHIBIT NO.	4

Mr. Charles Werner
Meridian Oil Company
3535 E. 30th
Farmington, New Mexico 87401

RE: Rosa Unit No. 222, Well Footages

Dear Mr. Werner:

Regarding the above mentioned well, there appears to be a discrepancy between the well list footages and where the well head has been located with relationship to Section 15, T.31 N., R.6 W., NMPM.

Well list footages were 1880 feet FNL, 830 FEL, our calculated location is 1926 FNL, 638 FEL. We find a difference of 46 feet North/South and 192 feet East/West.

We encountered this discrepancy upon completing our preliminary survey for a pipeline Right-of-Way to the above mentioned well head.

Procedures used to determine well head location are as follows: surveyed centerline of right-of-way to the existing well head. We also found and located a USGLO brass cap at the Northeast corner of Section 15 and the East Quarter corner of Section 15. The line between the two found Brass Caps we held for a Basis of Bearing. Record GLO Bearing is N 00-03-00 E. We then also checked the basis of bearing in our survey with a solar observation which checked within 00-02-57 (00 degrees, 02 minutes and, 57 seconds). To ensure no mistakes or errors during the original survey, we made a second trip to the site and made independent checks on our survey and retied both the Section Corner and the Quarter Corner.

Survey footages were calculated using the found Brass Cap at the Northeast Corner of Section 15 by running a bearing - bearing intersection against both the North and East lines of Section 15.

Please find enclosed a copy of our preliminary survey plat showing our surveyed location of the well head in question and the location of the pipeline right-of-way as surveyed leading to it.

Should you have any further questions or require any additional information please feel free to contact us at anytime.

Sincerely,

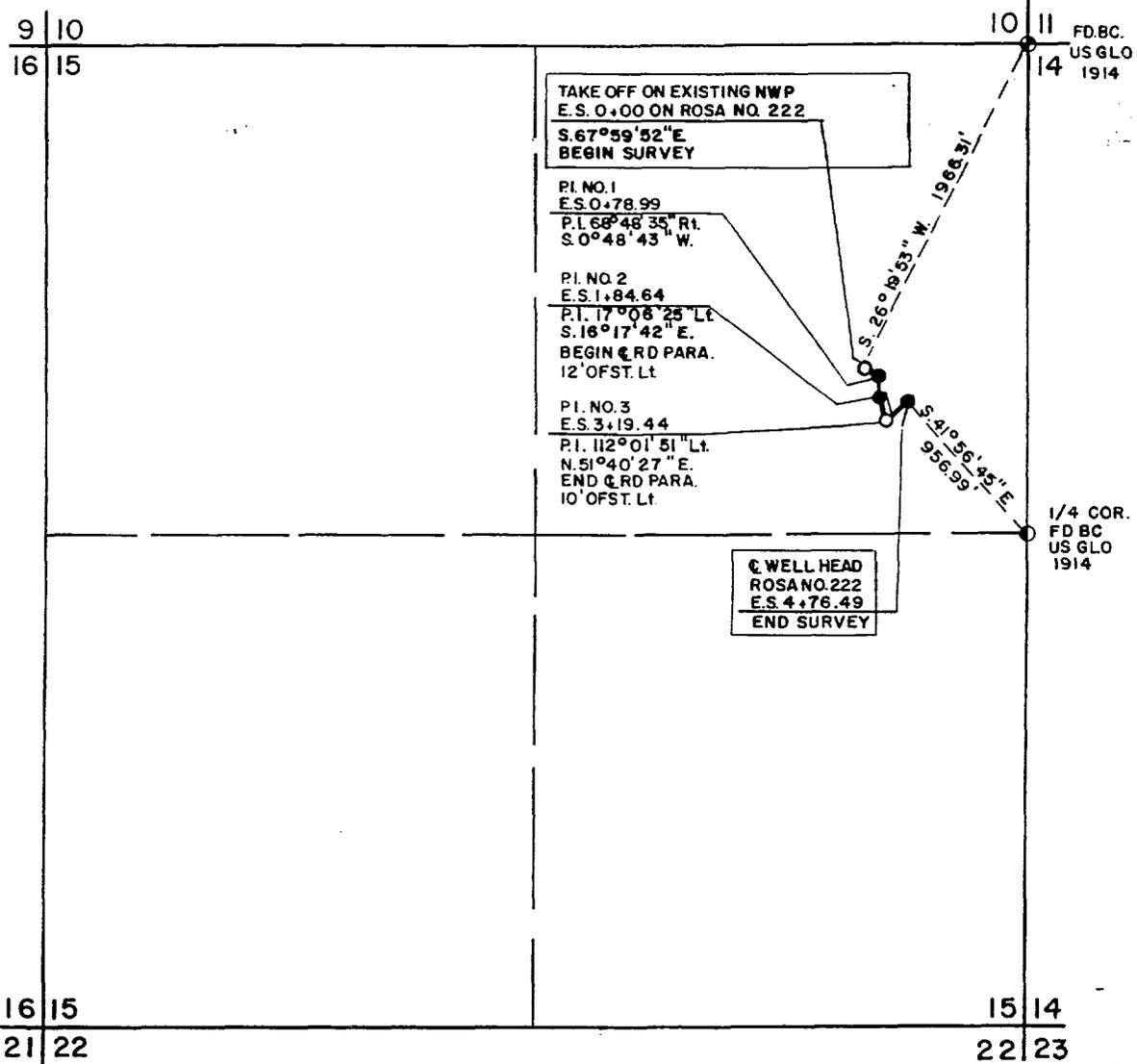
A handwritten signature in cursive script that reads "R. Howard Daggett". The signature is written in dark ink and is positioned above the typed name.

R. Howard Daggett, R.L.S.
President, Daggett Surveying, Inc.

Enclosure

RHD/jkt

A SURVEY FOR
 MERIDIAN OIL CO.
 H2O & GAS PIPELINES
 ROSA UNIT NO. 222
 NE/4 SEC. 15, T.31N., R.6W., N.M.P.M.
 RIO ARRIBA COUNTY, NEW MEXICO



NOTE:
 1. BASIS OF BEARING: E. LINE NE/4 SEC. 15, T.31N., R.6W., N.M.P.M., RIO ARRIBA CO., N.M.
 BEARS: N. 00° 03' 00" E.
 2. O = CAPPED IRON PINS SET AT REFERENCE POINTS.

OWNER	STATION	FT./ RODS
BLM	0+00 TO 4+76.49	476.49/28.87



0 500 1000
 SCALE 1" = 1000'

R. Howard Daggett
 R. HOWARD DAGGETT
 NEW MEXICO
 DATE: 10/31/89
 I, R. HOWARD DAGGETT, A DULY QUALIFIED LAND SURVEYOR
 LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO,
 DO HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS
 A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION AND
 THAT THIS SURVEY MEETS THE AMENDED MINIMUM STANDARDS
 FOR LAND SURVEYING IN NEW MEXICO

REVISION	REV. BY	DATE

DAGGETT SURVEYING, INC.
 P.O. BOX NO. 2789
 FARMINGTON, NEW MEXICO 87499
 (505) 326-1772
 REGISTERED LAND SURVEYOR
 R. HOWARD DAGGETT N.MEX. NO. 9679



geological consultants

and



Archaeological Division

**CURTIS MATTHEWS
STEPHANIE MATTHEWS**

**P.O. BOX 2922
DURANGO, CO 81302
303-247-5814**

August 21, 1989

Charles Werner
Meridian Oil Co
P.O. Box 4289
Farmington, NM 87499-4289

Re: Rosa Unit #201
Rosa Unit #216
Rosa Unit #222
Rosa Unit #208

Dear Mr. Werner:

The wells mentioned above were included in a farmout agreement with Northwest Pipeline, and were examined by Steve Sacks of the Bureau of Reclamation, Odell Farley of Meridian Oil, and myself as archaeologist, in order to determine whether the already approved well locations required expansion.

It was determined that the above locations were acceptable to all parties and do not require additional expansion.

As there were no alterations to the original APD, no report on the above locations was necessary.

If there are any questions, please call us.

Sincerely,

S. Sofranoff (Matthews)
Supervisory Archaeologist