District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088

Form C-10 Revised February 10, 199

Instructions on ba Submit to Appropriate District Offi State Lease - 6 Copi

District IV	ta., ∧ ziec,	NM 5/410		Santa	Fe, NM 8	7504-2088				Fee	Lease - 5 Cop
PO Box 2088, San	ita Fe, NM	87504-2088								AMEN	(DED REPORT
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3-	13-	95		5-395	-2123	Conditions of App Attached □	:OTEL :				ν 👂 .



MERIT ENERGY COMPANY

Humphrey Queens #35
2362 FNL - 2488 FEL
Unit G, Section 3-T25S-R37E
Lea County, New Mexico

1. The estimated top of geologic markers are as follows:

 Base Red Beds
 1000'

 Top Salt
 1090'

 Yates
 2820'

 7-Rivers
 2900'

 Queen
 3300'

 Penrose
 3450'

2. The estimated depth at which anticipated water, oil and gas are expected to be encountered:

Water

Surface to 500'

Oil and Gas Yates @ 2820' to Bottom Penrose 3700'

- 3. Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 3000#. BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B & B-1.
- 4. Auxiliary Equipment and proposed Casing Program:

A. Auxiliary Equipment: Kelly Cock, pit level indicators, flow sensor equipment, and a sub with full opening valve to fit drill pipe and collars will be available on rig floor in open position at all times for use when Kelly is not in use.

B. Casing and Cementing Program:

Hole Size: 11"

Total Depth: 1050' Casing Size: 8 5/8"

Setting Depth: 650' Mud Weight: 8.8 ppg

Casing Design:

O.D. Weight Grade Thread Coupling Interval Length 8 5/8" 24# J-55 8R ST & C 0-1050' 1050'

Minimum Casing Design Factors:

Collapse 1370, Burst 2950, Tensile Strength 3.81

Cement Program:

Lead Slurry: 550 sacks-Class A with 2% CaCl2

1/4 lb per sack Cellophane Flake

Expected Linear Fill: True Hole Volume-1089 feet

Slurry Properties: Weight-12.8 ppg Yeild-1.98 cu.ft./sack

Hole Size: 7 7/8" Total Depth: 3700' Casing Size: 5 1/2" Setting Depth: 3700' Mud Weight: 8.7 ppg

Casing Design:

O.D. Weight Grade Thread Coupling Interval Length 5 1/2 15.5# J-55 8R LT & C 0-3700' 3700'

Humphrey Queens #35 Page 2 of 2

Minimum Casing Design Factors:

Collapse 40.40, Burst 48.10, Tensile Strength 2.17

Cement Program:

Lead Slurry: 900 sacks Class "C" with .2% Calcium Cloride, 1/4# per sx Cello-Flake

Calculated Linear Fill: True Hole Volume-3785.8. Slurry Properties: Weight-15.6 ppg Yeild-1.18 cu.ft./sack

5. Mud Program and Auxiliary Equipment: From 0 to 1050' (Minimum).

Mud Weight: 8.6 ppg, Viscosity: 32 sec./1000 cc, Water Loss: N C cc, Mud Type:FW Gel/LCM. Mud will be checked tourly by mud engineer. Sufficeint quantities of mud will be kept on location to maintain minimum properties.

From 1050' to 3700' (Minimum Properties).

Mud Weight: 10.2 ppg, Viscosity: 34-40 sec./1000cc, Water Loss: N/C cc. Mud Type: Brine, use salt water gel for hole sweeps. Mud will be checked tourly by mud engineer. Sufficient quantities of mud will be kept on location to maintain minimum properties.

- 6. Testing, Logging and Coring Program: Samples: Every 10' from surface casing to TD. DST's: Any tests will be based on the recommendations of the wellsite Geologist as warranted by drilling breaks and shows. Coring: None Anticipated Logging: CNL-FCD form TD to casing, with GR-CNL up to Yates @ 2820'.
- 7. Abnormal Conditions, Bottom Hole Pressure and Potential Hazards:

Anticipated BHP:

From: 0' to 1050' Anticipated Max. BHP: -0- PSI From: 1050' to 3700' Anticipated Max. BHP: 1000 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: Possible lost circulation 1050' to 3700'.

Penrose 3450' H2S Zones Anticipated: Yates 2820' 7-Rivers 2900', Queens 3300',

Maximum Bottom Hole Temperature: 104 degrees Fahrenheit

8. Anticipated starting date: As soon as possible after approval with the drilling time being approximately 10 days and the completion time being another 12 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Merit Energy Company Humphrey Queens #35 2362 FNL - 2488 FEL Unit G, Section 3-T25S-R37E Lea County, New Mexico

This plan is submitted with a Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated the the operations.

1. EXISTING ROADS:

Exhibit A is a portion of BLM map showing the well and roads in the vicinity for the proposed location. The proposed well site is located approximately 3 miles east of Jal, New Mexico and the access route to the location is indicated in Blue and Red on Exhibit A.

2. DIRECTIONS:

Go east of Jal, New Mexico on Highway 128 towards Andrews, Texas approximately 3 miles. Turn left(north) onto blacktop. Go north for 1/2 mile to lease road. Turn left(west) and go approximately 1/2 mile. Turn north approximately 2 1/2 miles on new road access on your right(east) then 600 feet to new well site.

3. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 600 feet in length from the point of origin to the Southwest edge of the drilling pad the road will lie in a easternly direction.
- B. The new road will be 12 feet in width (driving surface) and will be adequately drained to control run-off and soil erosion.
- C. The new road will be bladed with a drainage on one side. One traffic turnout will be built.
 - D. The route to location is visible.

4. LOCATION OF EXISTING WELL:

- A. There is no drilling activity within a one-mile radius of the well site.
- B. Exhibit F shows existing wells within a one-mile radius of the proposed wellsite.

Multi-Point Surface Use and Operations Plan Humphrey Queens #35 Page 2 of 3

5. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. There are production facilities on this lease at the present time.

B. In the event that the well is productive the necessary production facilities will be installed to go to existing facilities. If the well is productive oil or gas, electric line will be ran to provide the necessary power. No power will be required if the well is productive gas.

6. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a fresh and brine water system. The water will be obtained from commercial sources and will be hauled to the location over the existing and proposed roads shown in Exhibit A.

7. SOURCE OF CONSTRUCTION MATERIALS:

Road & location will be built with material Becky Jo Doom pit off of old El Paso plant #2 road.

8. METHODS OF HANDLING WASTE DISPOSAL:

A. Drill cutting will be disposed of in the reserve pits.

B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.

C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.

D. Oil produced during operations will be stored in tanks until sold.

E. Current laws and regulations pertaining to the disposal of human waste will be complied with. Sanitary Port-O-Pottys will be provided during drilling operations, cleaned, sanitized, and/or replaced as necessary.

F. Trash, waste paper, garbage and junk will be contained to prevent scattering by the wind. Containment will be obtained by using covered trash bins. Then, hauled off to approved landfill in Lea County, New Mexico.

G. All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

9. WELL SITE LAYOUTS:

A. Exhibit C shows the relative location and dimensions of well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.

B. The reserve pits will be plastic lined.

C. A 200' x 200' area has been staked and flagged.

Multi-Point Surface Use and Operations Plan Humphey Queens #35 Page 3 of 3

10 PLANS FOR RESTORATION:

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned and all trash and junk to leave well site in as aesthetically a condition as possible.
- B. Unguarded pits, if any, containing fluid will be fenced until they have dried and been levelled.
- C. If the proposed well is non-productive, all rehabitation and/or vegetation requirements of the surfave land owner will be complied with and will be accomplished as expedient as possible. All pits will be filled level within 90 days after abandonment.

11.SURFACE OWNERSHIP:

Private surface: owned by Becky Jo Doom.

12.OTHER INFORMATION:

The primary surface use is for grazing.

13.OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval:

B. Through Drilling Operations,

Completions and Production:

Russell Whited, Prod Supt Merit Energy Company 118 West Nebraska Jal, New Mexico 88252 (505) 395-2173 Russell Whited, Prod Supt Merit Energy Company 118 West Nebraska Jal, New Mexico 88252 (505) 395-2173

14.CLARIFICATION:

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 which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Merit Energy Company and its terms and conditions under which it is approved. This statement is subject to the provisions of U.S.C. 1001 for the filing of a false statement.

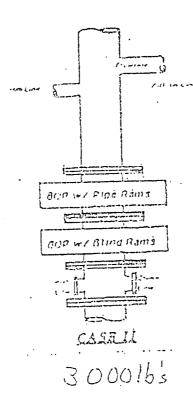
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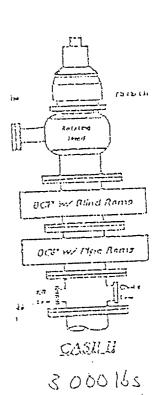
Russell Whited
West District,

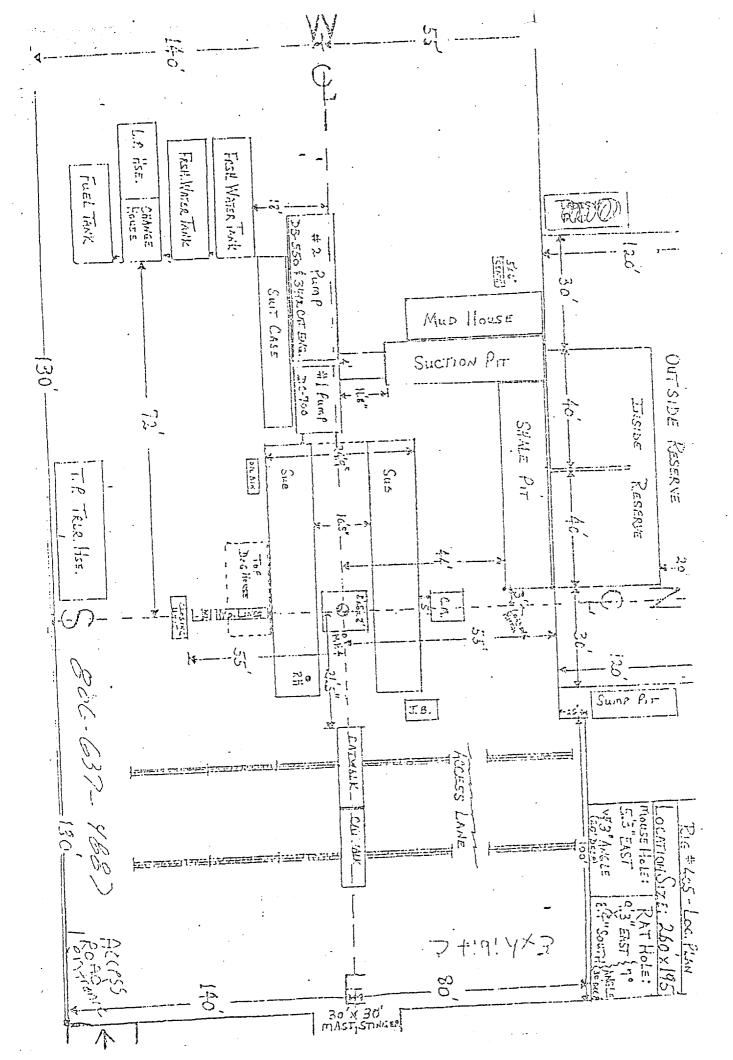
Production Superintendent

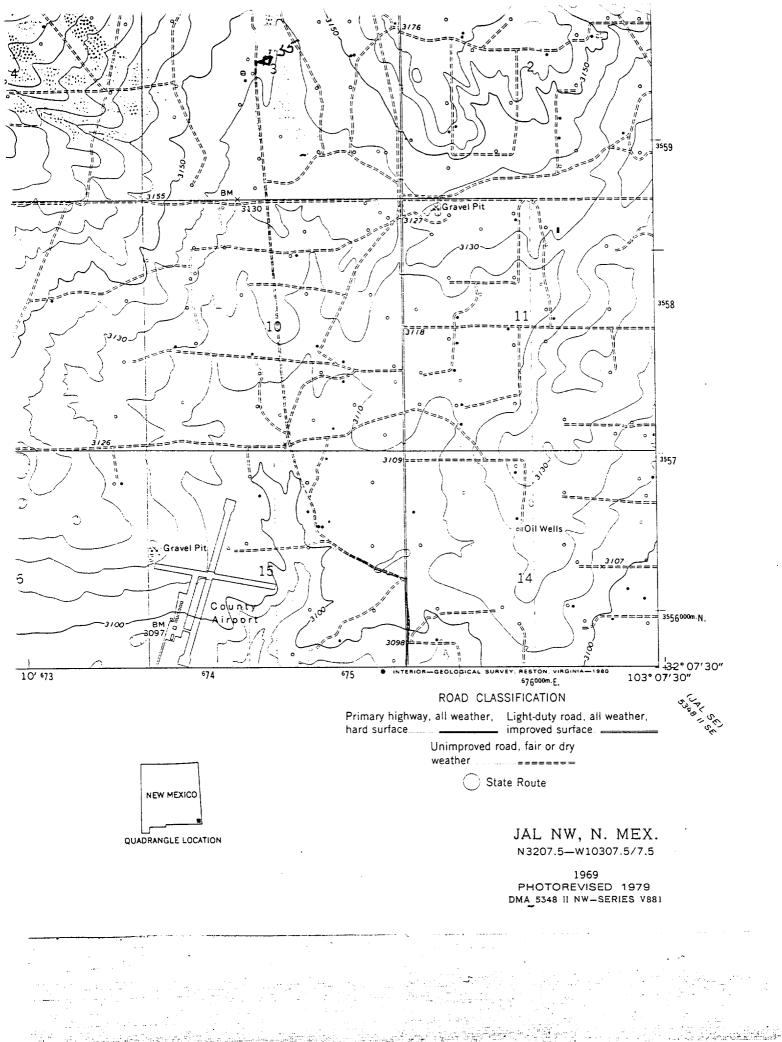
Exhibit B

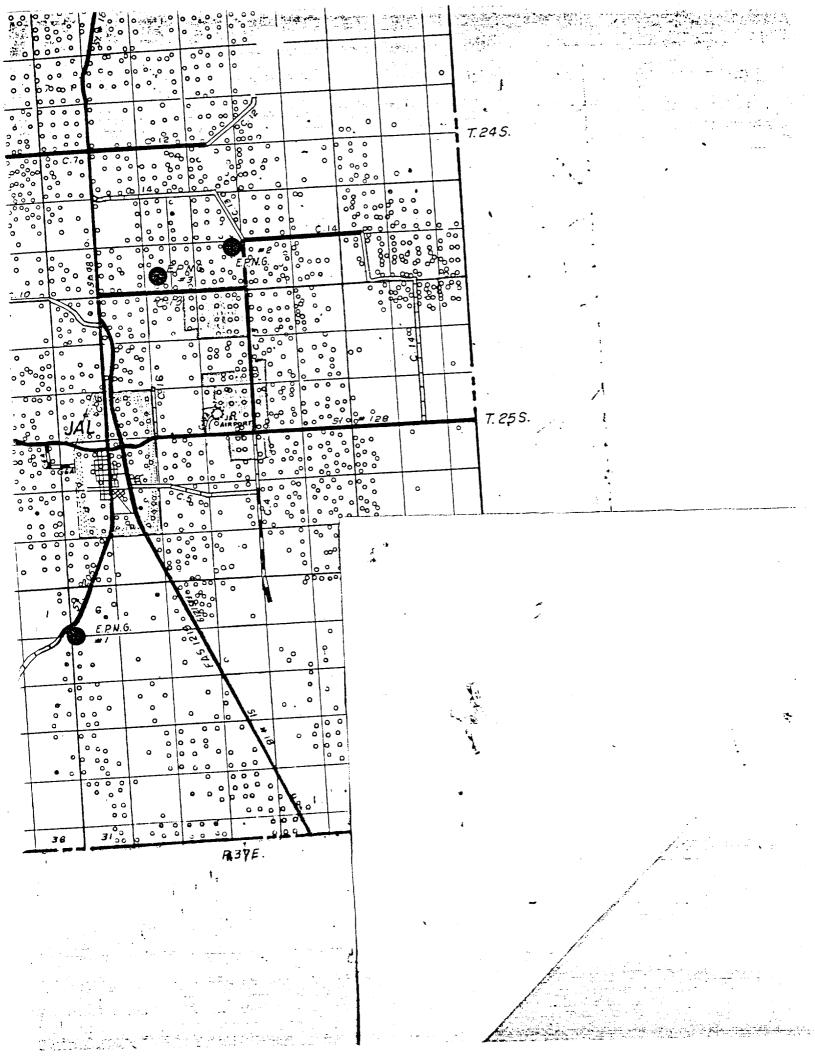
Exhibit B-1











DISTRICT I P.O. Box 1980, Hobbs, NM 88240

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Instruction on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

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

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe. New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT - Ale Maltin Book No.

API Number 3D-025-3293	2 3724/	Langle Mattix Pool Name	een's GB			
Property Code	Prop	erty Name	Well Number 35			
OGRID No.	Oper	rator Name	Elevation 3136'			
1 1454) 1	MERIT ENE	MERIT ENERGY COMPANY				

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	3	25 S	37 E		2362	NORTH	2488	EAST	LEA

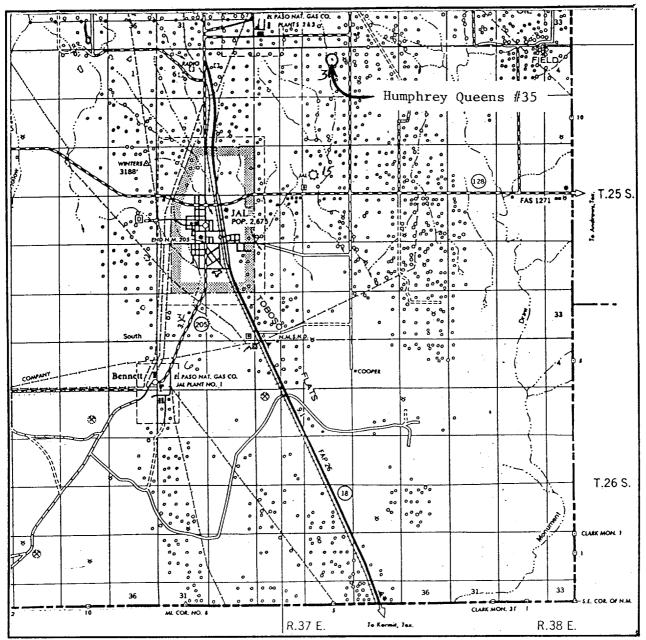
Bottom Hole Location If Different From Surface

Doctom Hole Pocacion it pitterent from Sariage									
UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County	inty								
Dedicated Acres Joint or Infill Consolidation Code Order No.									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		A		OPERATOR CERTIFICATION
				I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
107 4 40 00 ACDES	LOT 3-40.25 ACRES	. 759 270 270 270 270 270 270 270 270 270 270	LOT 1-40 19 ACRES	Russell Whitell
LOI 4-40.29 ACRES	LOI 3-40.23 ACRES	CD1 2-40.25 ACKES		Printed Name, Orange Cont.
		V		Title 3-2-95 Date
		0=	2488'	SURVEYOR CERTIFICATION
				I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my
	1			correct to the 1955 pf my belief.
	i +		<u> </u>	Date Shrupyed Signature & SealCof Professional Surveyor
			[]	January Mexicol 1-23-95
	1			Certificate No. RONALD J. EIDSON, 3239
	1		<u> </u>	

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 3 TWP. 25 S RGE. 37 E

SURVEY N.M.P.M.

COUNTY Lea STATE NM

DESCRIPTION 2362' FNL & 2488' FEL

ELEVATION 3136'

OPERATOR Merit Energy Co.

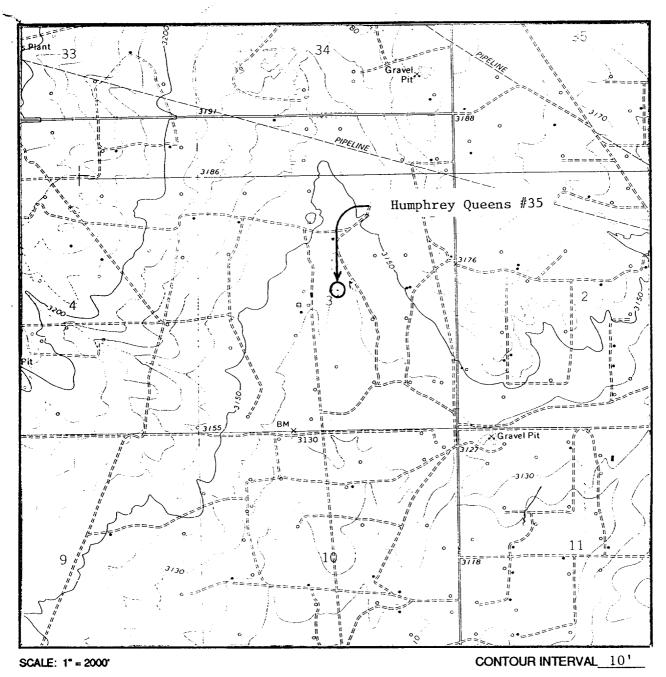
LEASE Humphrey Queens #35

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117





LOCALION VERIFICATION ...AP



SEC.__3 __TWP.__25 S __RGE.__37 E

SURVEY__N.M.P.M.

COUNTY__Lea ____STATE__NM

DESCRIPTION__2362'FNL & 2488' FEL

ELEVATION___3136'

OPERATOR_Merit_Energy CO.

LEASE ___Humphrey Queens #35

U.S.G.S. TOPOGRAPHIC MAP

Jal NW

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

