## **UNITED STATES**

Bureau	42-R1425

(May 1963)			,	(Other instru	ICTIONS ON		
		TED STATES		reverse i	side)	30-049-25	27/1
	DEPARTMEN'	I OF THE I	NTER	RIOR		5. LEASE DESIGNATION AND SERIA	L NO.
	GEOLO	GICAL SURVE	EY			SF 078097	
APPLICATION	Y FOR PERMIT	TO DRILL, D	DEEPE	N, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE	NAME
a. TYPE OF WORK	🖸				<del></del>	7. UNIT AGREEMENT NAME	
DRI b. Type of well	LL 🗵	DEEPEN [		PLUG BA	CK 📙	1. UNIT AGREEMENT NAME	
OIL GA	AS OTHER		81	NGLE MULTI	PLE	8. FARM OR LEASE NAME	
NAME OF OPERATOR	DED IZZI OTTIZE			AND THE POINT		Heaton	_
	tural Gas Co	mpany				9. WELL NO.	
ADDRESS OF OPERATOR	<b>.</b> .					lA T	
	, Farmington		_	tate requirements.*)	<del> </del>	10. FIELD AND POOL, OR WILDCAT Blanco Mesa Vere	
At surface	1830's, 1			,		11 SEC T R M OR RYE	
At proposed prod. zon	·					Sec. 28, T-31-N, R	-11-
	same					NMPM	
	AND DIRECTION FROM NEA		OFFICE	; <b>*</b>		12. COUNTY OR PARISH 13. STAT	E
2.5 miles r	north of Azte	ec, NM	16. NO	. OF ACRES IN LEASE	17 NO 6	San Juan NM	
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.	1100'	19. NO	2475.61		HIS WELL 5 / 320.	00 ~
(Also to nearest drlg	OSED LOCATION*		19. PR	OPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED, IS LEASE, FT.	1000'		5185'	Rotar	:y	
1. ELEVATIONS (Show who	ther DF, RT, GR, etc.)	<del></del>		· · · · · · · · · · · · · · · · · · ·		22. APPROX. DATE WORK WILL S	TART*
5904'GL			<u>-</u>				
3.	1	PROPOSED CASIN	G AND	CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от	SETTING DEPTH		QUANTITY OF CEMENT	
13 3/4"	size of casing 9 5/8"	32.3#	от	SETTING DEPTH	224 0	QUANTITY OF CEMENT	te
13 3/4" 8 3/4"	9 5/8" 7"	32.3#		200 <b>'</b> 2780 <b>'</b>	454 c	cu.ft. to circula	o Ala
13 3/4"	9 5/8"	32.3#		200'	454 c	cu.ft. to circula	o A1
13 3/4" 8 3/4" 6 1/4"  Selectively A 3000 psi blind and p	9 5/8" 7" 4 1/2"line y perforate a	32.3# 20.0# er 10.5# and sandwa	nter	200' 2780' 2630-5185' fracture the	454 d 446 d e Mesa	cu.ft. to circula	o Al er
13 3/4" 8 3/4" 6 1/4"  Selectively A 3000 psi blind and p	9 5/8" 7" 4 1/2"line y perforate a WP and 6000 pipe rams wi	32.3# 20.0# er 10.5# and sandwa	nter	200' 2780' 2630-5185' fracture the	454 d 446 d e Mesa	vu.ft. to circular cu.ft. to cover Oje cu.ft. to circ.line cu.ft. circ	o Al er
13 3/4" 8 3/4" 6 1/4"  Selectively A 3000 psi blind and p	9 5/8" 7" 4 1/2"line y perforate a WP and 6000 pipe rams will s dedicated.	32.3# 20.0# er 10.5# and sandwa psi test ll be used	dould for	200' 2780' 2630-5185'  fracture the ple gate preduced blow out to the ple	454 de 446 de 446 de Mesa	cu.ft. to circular cu.ft. to cover Oje cu.ft. to cover Oje cu.ft. to circ.line a Verde formation continue well con on this well 27 1979	o Al er
13 3/4" 8 3/4" 6 1/4"  Selectively A 3000 psi blind and p	9 5/8" 7" 4 1/2"line y perforate a WP and 6000 pipe rams wi	32.3# 20.0# er 10.5# and sandwa psi test ll be used	dould for	200' 2780' 2630-5185'  fracture the ple gate preduced blow out to the ple	454 de 446 de 446 de Mesa	vu.ft. to circular cu.ft. to cover Oje cu.ft. to circ.line cu.ft. circ	o Al er
13 3/4" 8 3/4" 6 1/4"  Selectively A 3000 psi blind and p  This gas is  The E/2 of N ABOVE SPACE DESCRIBE ONE. If proposal is to o	9 5/8" 7" 4 1/2"line y perforate a WP and 6000 pipe rams will s dedicated.  Section 28 PROPOSED PROGRAM: If drill or deepen directions	32.3# 20.0# er 10.5#  and sandwa  psi test ll be used  is dedicat proposal is to deep	dould for	200' 2780' 2630-5185'  fracture the ole gate preduce the preduction of the preductio	454 de 446 de 446 de Mesa	cu.ft. to circular cu.ft. to cover Oje cu.ft. to cover Oje cu.ft. to circ.line a Verde formation continue well con on this well 27 1979	o Aler
13 3/4" 8 3/4" 6 1/4"  Selectively A 3000 psi blind and p  This gas is  The E/2 of	9 5/8" 7" 4 1/2"line y perforate a WP and 6000 pipe rams will s dedicated.  Section 28 PROPOSED PROGRAM: If drill or deepen directions	32.3# 20.0# er 10.5#  and sandwa  psi test ll be used  is dedicat proposal is to deep	dould for	200' 2780' 2630-5185'  fracture the ole gate preduce the preduction of the preductio	454 de 446 de 446 de Mesa	cu.ft. to circular cu.ft. to cover Ojo cu.ft. to circ.line cu.ft. circ	o Aler
13 3/4" 8 3/4" 6 1/4"  Selectively A 3000 psi blind and p  This gas is  The E/2 of N ABOVE SPACE DESCRIBE One. If proposal is to oreventer program, if any	9 5/8" 7" 4 1/2"line y perforate WP and 6000 pipe rams will s dedicated.  Section 28 PROPOSED PROGRAM: If drill or deepen directions	32.3# 20.0# er 10.5# and sandwa psi test ll be used is dedicat proposal is to deep ally, give pertinent	dould for	200' 2780' 2630-5185'  fracture the ole gate preduce the preduce of the preduce o	454 de 446 de 44	cu.ft. to circular cu.ft. to cover Ojo cu.ft. to circ.line cu.ft. c	o Aler
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13 3/4" 8 3/4" 6 1/4"  Selectively  A 3000 psi blind and p  This gas is  The E/2 of N ABOVE SPACE DESCRIBE One. If proposal is to oreventer program, if any 4.  SIGNED	9 5/8" 7" 4 1/2"line y perforate WP and 6000 pipe rams will s dedicated.  Section 28 PROPOSED PROGRAM: If drill or deepen directions y.  Tal or State office use)	32.3# 20.0# er 10.5#  and sandwa  psi test ll be used  is dedicat  proposal is to deep ally, give pertinent	dould for	200' 2780' 2630-5185'  fracture the ole gate prediction out for this well and the out for the outer than the ou	454 de 446 de 446 de Mesa de M	cu.ft. to circular cu.ft. to cover Ojo cu.ft. to circ.line cu.ft. circ.line cu.ft	o Aler

#### OIL CONSERVATION DIVISION

### STATE OF NEW MEXICO

#### P. O. BOX 2088 ENERGY AND MINERALS DEFARTMENT SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

All distances must be from the cuter boundaries of the Section.							
Cperator			Lease			Well No.	
EL PASO NA	TURAL GAS COMP.	WY	HEAT	ON	(SF-078097)	)   -1A	
Unit Letter	<del></del>	`ownship	Ronge		County		
I	28	31N	- I	LlW	San Juan		
Actual Footage Loc	<u> </u>	)1M		L-LY:	Dan Juan	<del></del>	
_	_	,	***		<b>-</b> .		
1830	feet from the Sou	th line on:	<u>i 13.00</u>	fee	t from the East	line	
Ground Level Elev.	Producing Forms	tion	Pool			Dedicated Acreage:	
5904	Mesa Verd	9		Blanco Mes	sa Verde	320.00 / Acres	
		1 1 1	13. 1. 1		1 1 1 1	<u> </u>	
1. Outline th	e acreage dedicate	d to the subject i	well by col-	ored pencil o	r hachure marks on t	he plat below.	
ł	nan one lease is d nd royalty).	edicated to the we	ell, outline	each and ide	ntify the ownership t	thereof (both as to working	
	an one lease of dif	-		to the well,	have the interests of	f all owners been consoli-	
□ Үез	No If ans	wer is "yes," type	of consolid	lation			
	is "no," list the ov	vners and tract des	scriptions w	hich have ac	ctually been consolid	ated. (Use reverse side of	
	•	to the walltl -	ll interest	have here	ansolidated (L	amunitization unitimation	
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forced-poo	ling, or otherwise) o	until a non-standa	ard unit, eli	minating suc	h interests, has beer	approved by the Commis-	
sion.							
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	1	28				certify that the well location	
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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

#### Multi-Point Surface Use Plan

#### Heaton #1A

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map.

  All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2.
- 4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines Please refer to Maps No. 1 and No. 2.

  Map No. 2 shows the existing gas gathering lines. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from Farmers Ditch.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1,

7. cont'd.

will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.

- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.
- 11. Other Information The terrain is a hillside slope with cedar and sagebrush growing. Deer and cattle are occasionally seen on the proposed project site.
- 12. Operator's Representative W.D. Dawson, PO Box 990, Farmington, NM
- 13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 El Paso Natural Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

L. A. Aimes

Project Drilling Engineer

#### Operations Plan Heaton #1A

I. Location: 1830'S, 1100'E, Section 28, T-31-N, R-11-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 5904'GL

#### II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	2580 <b>'</b>
			Ojo Alamo	765'	Mesa Verde	3990 <b>'</b>
			Kirtland	875 <b>'</b>	Menefee	4235'
			Fruitland	2085'	Point Lookout	4734'
			Pic.Cliffs	2435'	Total Depth	5185'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 3780', 4225', 4725' and at Total Depth.
  Also gauge any noticeable increase in gas. Record all gauges in daily drilling report and on morning report.

#### III. Drilling:

A. Mud Program: mud from surface to 2780'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

Α.	Casing 1	Program: 1	Hole Size		Casing Size	Wt.&Grade
	_	•	13 3/4"	200'	9 5/8"	32.3# H-40
			8 3/4"	2780 <b>'</b>	7"	20.0# K-55
			6 1/4"	2630-5185'	4 1/2"	10.5# K-55

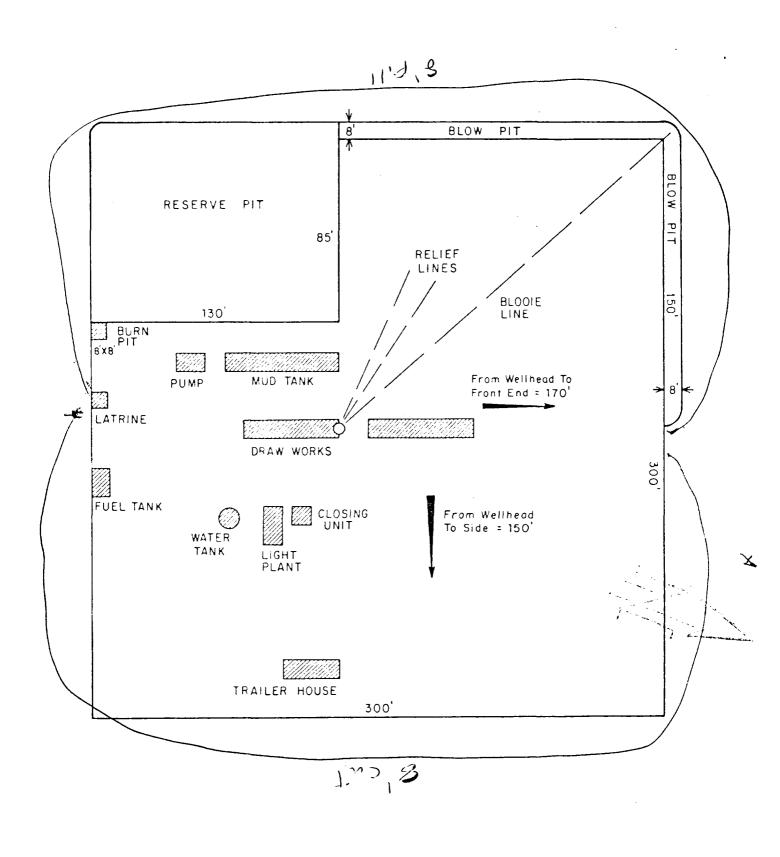
B. Float Equipment: 9 5/8" surface casing - B & W guide shoe
 (Prod. No. FC 06-09611-0200)

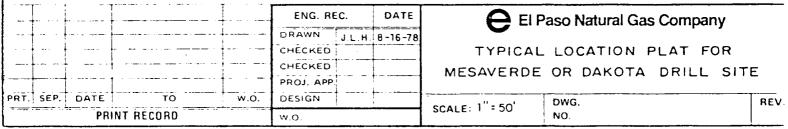
7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Howco self-fill insert float valve (Price Ref.36A&37), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Larkin geyser shoe (Fig.222) and Larkin flapper type float collar(fig.404 M&F).
- C. Tubing: 5185' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
- D. Wellhead Equipment:  $10" 900 \times 9 5/8"$  casing head.  $10" 900 \times 6" 900 \times 10"$

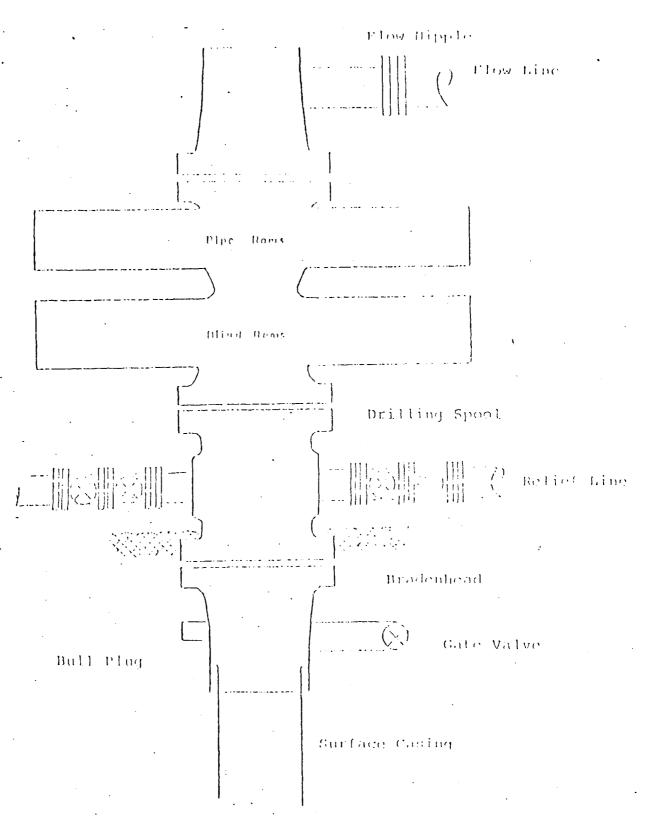
#### V. Cementing:

- 9 5/8" surface casing use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 208 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (454 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.
- 4 1/2" liner precede cement with 20 barrels of gel water (2 sks. gel) Cement with 321 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (446 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



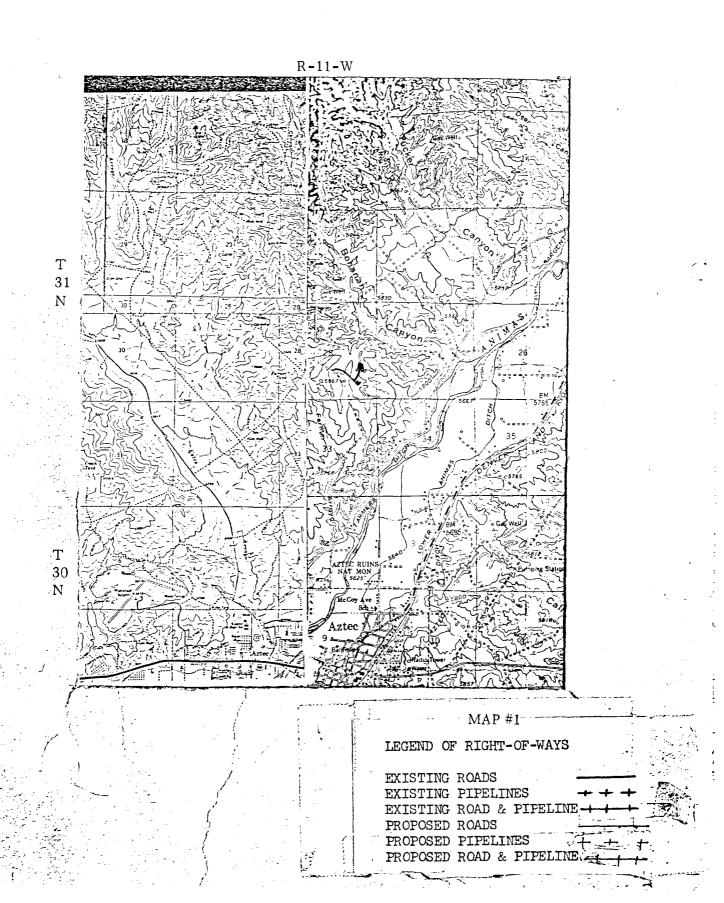


### Typical W.O.L - Installation for Mega Verde Well

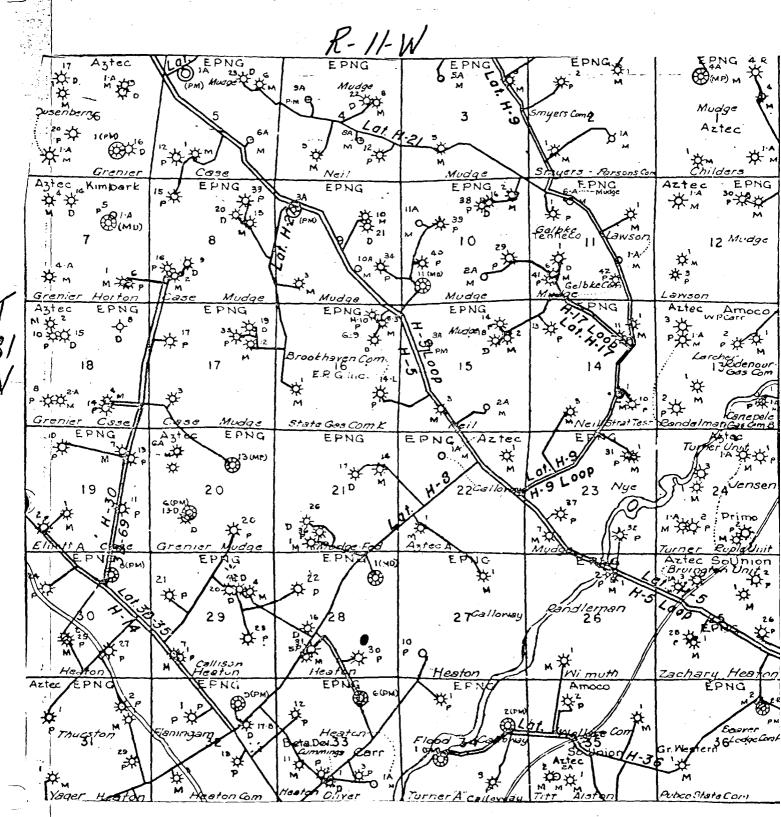


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line

# EL PASO NATURAL GAS COMPANY Heaton #1A SE28-31-11



## EL PASO NATURAL GAS COMPANY Heaton #1A SE 28-31-11



MAP #2