SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

30-085-225/6

DEPARTMENT OF THE INTERIOR								5. LEASE DESIGNATION AND SERIA NO.	
GEOLOGICAL SURVEY								NH - 05791	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK								6. IF INDIAN, ALLOTTI	E OR TRIBE NAME
a. TYPE OF WORK	311 1 311						1_		
	RILL 🗷		DEEPEN		PLU	JG BAC	K 🗌	7. UNIT AGREEMENT	Name
b. TYPE OF WELL				RI	NGLE [MULTIPL		S. FARM OR LEASE NA	N. F.
WELL []	WELL X	OTHER			NE L	ZONE	* x		
NAME OF OPERATOR							-	9. WELL NO.	IN Federal Com
Atlantic lic	hfield C	ompany							
						- 0-	-	1-A 10. FIELD AND POOL,	OR WILDCAT
501 Lincoln Tower Bldg., 1860 Lincoln St., Penver, Colo, 80295 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)								Blanco My & Largo Chacra	
Unit 0 - SW	SE - 10	50 1 f/Sc	outh & 1600) ' f/ Ea	ast lines	Sec. 9	7	11. SEC., T., R., M., OR AND SURVEY OR A	BLK. Area
Unit 0 - SM SE - 1050 f/South & 1600 f/East lines Sec. 9 At proposed prod. zone Approx same								Sec. 9-2711-8VI	
4. DISTANCE IN MILE	S AND DIRECT	TON FROM NE.	AREST TOWN OR PO	ST OFFICE	•			12. county or parisi San Juan	New Mexico
D. DISTANCE FROM PR LOCATION TO NEAR	OPOSED*	1040' f/	/ each	16. NO	O. OF ACRES IN	LEASE	17. NO. OF	ACRES ASSIGNED	
PROPERTY OR LEAS (Also to nearest (E LINE, FT.	•			1121.95 a	n	320 (E	/2); 160(SE/l	1) Sec. 9
S. DISTANCE FROM P.	ROPOSED LOCA	TION*	1561' f/#2	19. PR	OPOSED DEPTH			Y OR CABLE TOOLS	
TO NEAREST WELL OR APPLIED FOR, ON	THIS LEASE, F	in III	SE Sec. 9		46651		ilota	ry	
1. ELEVATIONS (Show	whether DF, I							22. APPROX. DATE W	
		601,81	::					When appl r	
3.			PROPOSED CAS	SING ANI	CEMENTING	PROGRA	M	Est. 5/1 to	5-10
SIZE OF HOLE	SIZE	OF CASING	WEIGHT PER	FOOT	SETTING D	EPTH		QUANTITY OF CEMI	ENT
12-1/4"		-5/8"	2)1#		2501		200 sx	(Circ to sw	rf)
7-7/8"		(<u>-)</u> (2" (-)	15.5/	ı	T.D.		750 sx		
1-17(4	/ " # <i>I</i> =							
					ĺ				
Propose to perforate, formations	test, s	ell to & timilate	epth suffic if necess	mient ' ary, a	to test t nd dual c	he Mas omplet	averde, e in th	set product: e Chacra and	ion string, !fesaverde
Carcuant W	"!-6, at	tached a			ocation P				
	,		_ Prill:	ing Pl	an w/ Att	•			
	1		Surfac	ce Use	and Oper	ations	Plan w		
		11.25 °	1977					A VILLE AND	84
. /	_0	APR 25	COM.					APR 33	977
Hari	s d	edi	ede	epon or	olug back, give	data on pr	esent produ	ctive zone and propo	sed new productive
one. If proposal is reventer program, if		epen direction	naHy, give pertin	ent data c	on subsurface to	ecations an	u inegsurea	and true vertical dep	LUB. THE DIOWOUL
24.		1	·			· · · - · · · · ·			

*See Instructions On Reverse Side

Operations Manager

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

e action by either y use of this form series to may

All distances must be from the outer boundaries of the Section.

Carrier			Lease	Well No.	
Atlantic	RichfieldComp	any	Graham "C" WN F	1-A	
U.S. Detter	Section	Township		inty	
0	9	27 North	8 West	San Juan	
A to the fact up to		Cau+b 1: 1	1600 4	Fact	Hea
1050 On the Live Hiller		South line and mation	Pool Feet from		
6048		le & Chacra	Blanco Mesaverde,	`	
			ell by colored pencil or ha		
1. Outilité t	ne acreage activa			, I	
interest a 3. If more th	and royalty). ian one lease of d	ifferent ownership is	ll, outline each and identify dedicated to the well, hav		
[X] Yes If answer	[] No If a		of consolidation Comm. A	9-52, Appd 1-15-	-53
No allowe	if necessary.)	ed to the well until al or until a non-standa	l interests have been cons rd unit, eliminating such in	olidated (by communiterests, has been app	itization, unitization, roved by the Commis-
				CE	RTIFICATION
		SEC 9	NM - 05750 NE/4	hoined herein is best of my kno WWW. A. Opera Position Atlantic F Company April 13, Date	y that the information consist true and complete to the wledge and belief. Allow Jan. Walther, Jr. Ations Manager Richfield Company 1977 LAND William the well location plot was platted from field
	APR 25 1977 CON. COM. DIST. 3		050 NM - 05791 SE/4	Date Surveyed March 31 Registered Profe	belief. ECHOMANIA SIGNATURE STORY BETTO TO BETTO MY SESSIONAL ENGINEER REYOR A MANUAL MANUAL MY BETTO MY
Ri coloner R. Berlin	, ,			Certificate No.	3602 E.V.Echohawk LS
33.00 67.2	97 1320 165 191	80 2310 264U 200	0 1500 1000 500	0	

DRILLING PLAN

Graham "C" WN Federal Com., Well #1-A SW SE Section 9-27N-EW San Juan County, New Mexico

1. Surface Formation: Tertiary - Wasatch

2. Geologic Markers: Ojo Alamo (base) - 11/70'

Pictured Cliffs - 2220'
Chacra - 3160'
Mesaverde - 3860'
Mancos - 1665'

3. Anticipated Mineral Bearing Formations: Ojo Alamo (Poss. Water) - 1360'±

Pictured Cliffs (Poss. Gas) - 2220' Chacra (Poss. Gas) - 3160' Mesaverde (P^Oss. Gas) - 3860'

4. Casing Program: Surface - 250' 8-5/8"OD 21# J-55 New Prod'n. - T.D. 5-1/2"OF 15.5# J-55 New

5. Control Equipment: Blowout Preventer - Ram Type, hydraulic operated
Rams - Two: One blind ram & one pi

Rams - Two: One blind ram & one pipe ram
Series - 900 (3000#WP, 6000#T)
Manufacturer - Cameron or Shaffer
Pressure test @ 1000 psi prior to drilling
out of casing string. Operational checks
to be made daily and on trips.

Sketch attached.

6. Prilling Fluid: 0 - 250' Gel and lime to drill surface hole and set casing.

250' - 3000' Water w/gell chemical addition to maintain hole.

3000' - T.D. Low solids non dispersed: 9-9.2#; vis 38-li5;

water loss 8 cc or less. Maintain weight material on location.

7. Auxiliary Equipment: Kelly cock

Sub on floor with full opening valve for use in drill pipe

when kelly is not in the string.

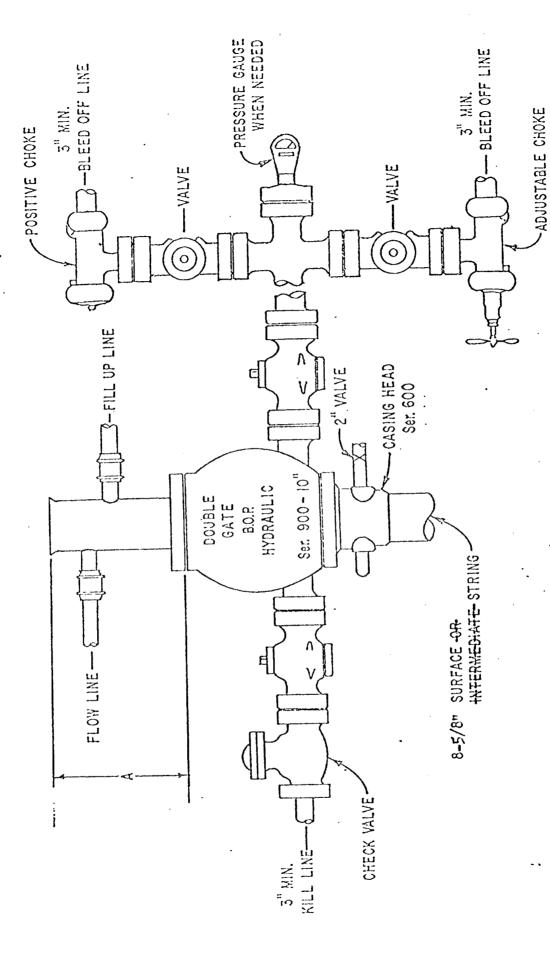
8. Testing, Logging, Coring: At this time no drill stem tests or cores are planned.
Hole conditions, or information obtained while drilling,
may alter these plans.

Logs: Open Hole - Dual Induction Laterolog-8 TD - Surf. Casing Simultaneous FDC-CNL TD - 2000' ±

Cased Hole - GR-Correl, and CBL w/Var. Dens.

- 9. Abnormal Pressures, Temperatures, Potential Hazards: There are no abnormal pressures, temperatures, or potential hazards in the area. The maximum anticipated pressure is 950 psi. Weight material will be maintained on location and BOP will be pressure tested and kept in good working condition.
- O. Starting Date- Completion: Upon receipt of the District Engineer's approval to drill, building of the road and location will be commenced, requiring approximately 5 days. Moving in and rigging up should require 1 days. Drilling to T.D., logging, and setting casing is estimated to require 13 days. Perforating, testing, treating if required, and completion should require an additional 12 days, or an estimated total of 34 days. In the event of delays (rig, services, materials, etc.) the overall time could be considerably extended.

NTL-6 indicates a minimum of 30 days are required to obtain approval, in which case operations could not be commenced until about May 15, 1977. Also, this is the lst well of a five well drilling program, after completion of the road and location, moving in and drilling operations are estimated to commence about May 5th, 1977, depending upon when approval received.



Graham "C" WN Federal Com, Well #1-A SW SE Section 9-27N-8W San Juan County, New Mexico

Graham "C" WN Federal Com, Well #1-A SW SE Section 9-27N-8W San Juan County, New Mexico

1. Existing Roads: As shown on the attached "Existing Road, Map 1" and "Existing Road - Planned Road, Map 2". The main access is East from Blanco, New Mexico on New 17 approx. 1-3/8 miles, then turning right (southeasterly) along the cast side of Canon Largo. From the turn-off, proceed approx. 4 miles southeasterly along the east side of Canon Largo to "Fivemile Crossing" and cross to the west side of Canon Largo. "Fivemile Crossing" is in the SW/4 Sec. 26-to the west side of Canon Largo. "Fivemile Crossing" is in the SW/4 Sec. 26-29N-SW. From "Fivemile Crossing", proceed approx. 8-1/2 miles southeasterly, turning southerly, along the west side of Canon Large to a right-hand turnoff in the SW NW Sec. 10-27N-SW. Turn right, then left in a South-Southwesterly direction about 1/1 mile. From this point the new access road to location will need to be constructed. An alternate route is southeasterly from "Fivemile Crossing", up Carrizo Creek, crossing Carrizo Creek, back northwesterly along the west side of Carrizo Creek, then southeasterly along the east side of Canon Largo, crossing to the west side in the NW/h Section 3-27N-SW. This route is not set forth, or color coded on the attached maps.

None of the existing roads will require improvement.

Existing roads as set forth above, and roads within a 1-mile radius are colored "red" on the attached map. The access road to be constructed is colored "blue".

- 2. Planned Access Road: The planned access road to be constructed will leave the existing road just east of the C E/2 Sec. 9-27N-8W as shown on Map 2. This will be on the 1st major "shelf" above Canon Largo. The road will be approx. 1700' southwesterly to the location, generally along the same contour, having no grades in excess of 8%. A minimum amount of grading will be done and the natural drainage will be altered very little, if any. There will be no major cuts or fills, culverts will be altered very little, if any. There will be no major cuts or fills, culverts turnouts, rates, cattleguards, or fence cuts. The width will be approximately 18', or sufficient to handle drilling equipment. The surface area is sandy, gravel, and rock, and no special surfacing material will be required.
- 3. Existing Wells: As shown on the attached Map. All wells are gas wells.
- 4. Existing/Proposed Facilities: Atlantic's facilities within a one mile radius are as follows: Well #1, NE/4 Sec 9, dual PC & Nv 2 gas lines to gas gathering company facilities, approx 100' each, buried.

 Well #2, NE SE Sec. 9, PC 1 gas line approx 100' to gas gathering company facilites, buried. Meter house at tie-in.

 Well #3, NW/4 Sec. 15, PC 1 gas line approx 100' to gas gathering company facilities, buried.
 - This well is proposed as a dual Chacra & Mesaverde completion. The maximum facilities anticipated to be required would be two tanks and two production units. This will depend on the amount of liquids produced. All facilities would be located on the drill pad, and there would not be any additional surface disturbance. The tank(s) pad would be approx 18' x 36' (two tanks) x 10" high with h" peagravel or sand on top. The production unit(s) pad would be approx 18' x 24' (incl small drain pit) and the unit(s) erected on concrete piers. The drain pit will be fenced for protection of livestock and wildlife. The area not required for facilities, or operation of the well, will be contoured as near as possible to the original contours, and restored as directed by the Bureau of Land Management.
- 5. Water Supply: Due to drought conditions, water is in very short supply in the area and it is anticipated that Braden Head water from wells in Canon Largo will be used, primarily, Graham #8, NW/4 Sec. 3-27N-SW, and Marron #7, NE/4 Sec. 22-27N-SW. Both sources shown on Map 2. The water will be trucked and no new roads, or road improvements, will be required.
- 6. Construction Materials: Since the surface is sandy, gravel and rocky, no construction materials will be required.

7. Waste Disposal: Cuttings and drilling fluids will be disposed of in the pit. A trash, or burn, pit will be used to dispose of trash, garbage, etc. If the reserve pit is sufficiently dry when the well is completed, both the reserve pit and trash pit will be filled upon completion of the well. If not, the trash pit will be filled upon completion of the well, and the reserve pit will be fenced to be filled when sufficiently dry.

Any produced fluids will be disposed of in the reserve pit. Any oil accumulation on the reserve pit during drilling and completion will be skimmed and disposed of immediately after the completion rig is moved off. Oil produced during completion will be held in a temporary tank for later disposition. Trash and debris

cleanup will commence as soon as completion rig move out, and final cleanup and

8. Ancillary Facilities: No ancillary facilities are proposed.

contouring will begin as soon as possible.

- 9. Well Site Layout: Per the attached sketches. The reserve pit, which will be approximately 25' x 75', will be unlined.
- 10. Restoration of Surface: Upon completion of the well, the drill site will be cleaned, rat and mouse holes filled, and trash pit filled. If sufficiently dry the reserve pit will be filled. If not, any oil accumulation will be removed and the pit fenced for protection of livestock and wildlife. Other than the area needed for operation and production facilities, the site will be contoured as near as possible to its original state. Gas line ditch will be backfilled and the access road graded for proper drainage and minimum surface damage. Reseeding, or any other restoration, will be as specified by the Bureau of Land Management.
- 11. Other Information: This location is on the first "shelf" above Canon Largo, sloping from south & west downward to North & east, primarily south-north. The surface is sandy, gravel and rocky. Vegetation is scrubby pinon and juniper trees, scattered yucca, prickly pears, mormon tea and sparse clumps of native grasses. There are no dwellings in the area and no water wells; the closest water being in Canon Largo, occasionally.

The lands involved are Federal lands in an established gas field. There is some sheep and cattle grazing in the area. To our knowledge there are no archeological, historical, or cultural sites which will be involved, or in the area.

With the short period of operations and restoration of the surface, any disturbance to vegetation and wildlife, will be temporary and minimal. It is not anticipated that there will be any substantial impact on the environment.

12. Lessee's or Operator's Representative: .

Mr. W. A. Walther, Jr.
Atlantic Richfield Company
1860 Lincoln Street, Suite 501
Denver, Colorado 80295
Phone: A/C 303 573-4049
Res: A/C 303 798-5729

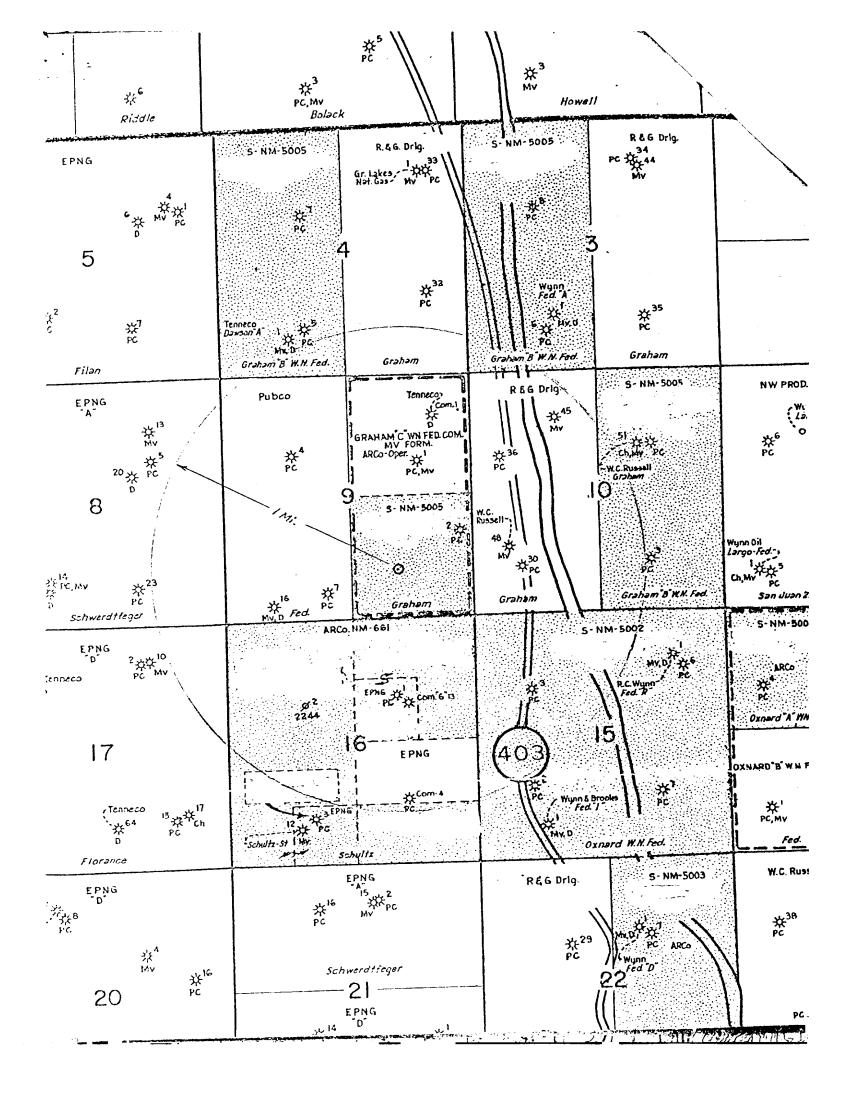
Mr. B. J. Sartain
Atlantic Richfield Company
1860 Lincoln Street, Suite 501
Denver, Colorado 80295
Phone: A/C 303 573-4053
Res: A/C 303 770-7849

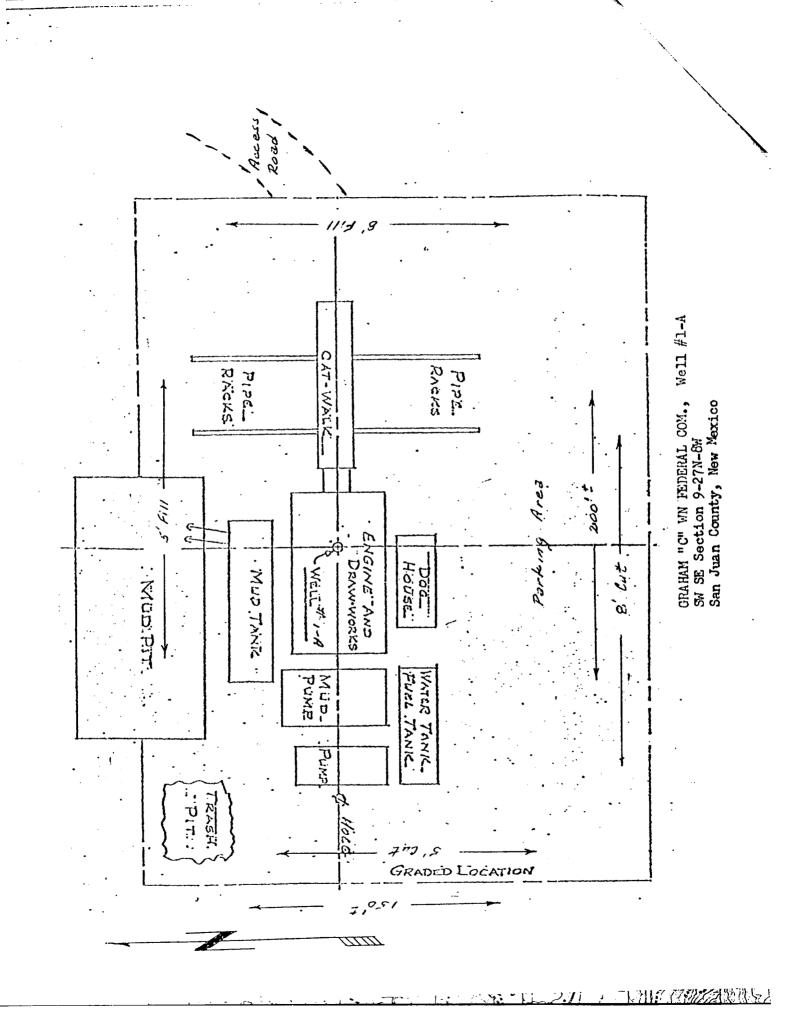
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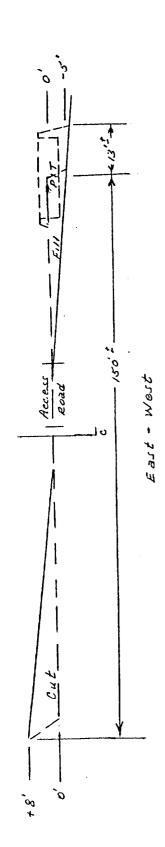
Mr. J. E. Taylor
Atlantic Richfield Company
P. O. Box 2197
Farmington, New Mexico 87h01
Phone: A/C 505 325-7527
Res: A/C 505 325-7968

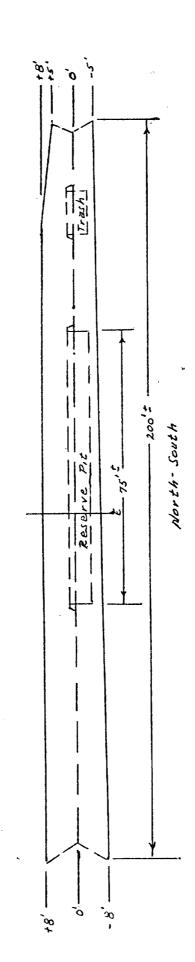
13. Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Atlantic Richfield Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

<u>4-18-77</u> Date W. A. Walther, Jr.
Operations Manager









GRAHAM "C" WN FEDERAL COM., WELL #1-A SW SE Section 9-27N-8W San Juan County, New Mexico

