

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-075-22686
5. LEASE DESIGNATION AND SERIAL NO.
SF 080238A

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

J. Gregory Merrion and Robert L. Bayless

3. ADDRESS OF OPERATOR

P.O. Box 1541, Farmington, N. M. 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)

At surface

1850 FNL and 990 FWL

At proposed prod. zone
same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

1300 ft.

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160-160.24

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5987 ft. G.L.

22. APPROX. DATE WORK WILL START*

As soon as possible

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
7-7/8"	5-1/2"	15.5#	30 ft.	10 sax
4-3/4"	2-7/8"	6.4#	1300 ft.	100 Sax

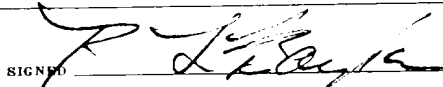
Will drill 7-7/8" hole to 30 ft. and set 30 ft. of 5-1/2", 15.5# casing with 10 sax cement. Will drill 4-3/4" hole to 1300 ft. and run logs. If appears productive, will run 1300 ft. of 2-7/8", 6.4#, J-55 casing and cement with 100 sax. Will perforate and stimulate as required. Will use 6"-900 double ram blowout preventer.

Note: The gas from this formation is dedicated to Northwest Pipeline.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED



TITLE

Co-Owner

DATE

August 10, 1977

(This space for Federal or State office use)

PERMIT NO.

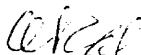
APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions On Reverse Side

RECEIVED

AUG 11 1977

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

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

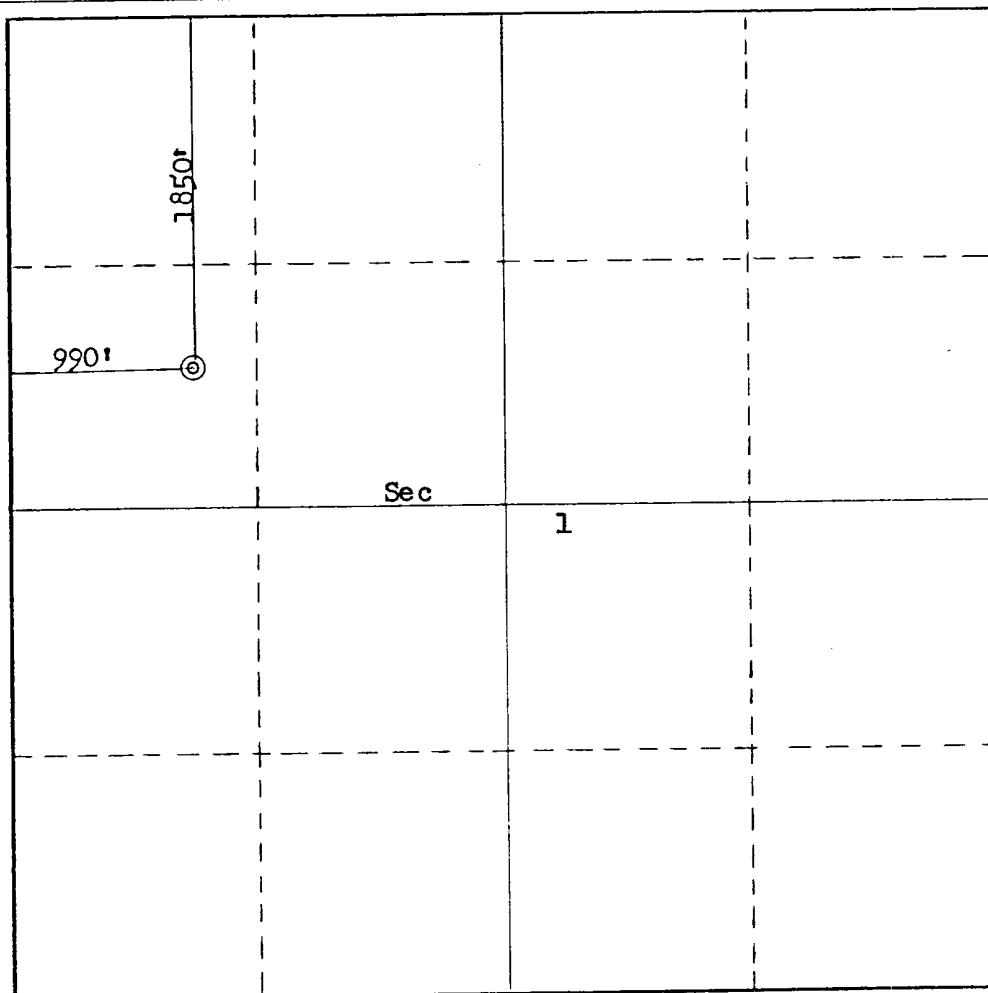
Operator Merrion & Bayless			Lease Chaco		Well No. 11
Unit Letter E	Section 1	Township 26N	Range 13W	County San Juan	
Actual Footage Location of Well: 1850 feet from the North line and 990 feet from the West line					
Ground Level Elev. 5987	Producing Formation Picture Cliff		Pool NIPP Picture Cliff		Dedicated Acreage: 160.24 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation, _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Robert L. Bayless

Name
Robert L. Bayless

Position
Co-Owner

Company
Merrion & Bayless

Date
August 10, 1977

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 supervision, and that the same is true and correct to the best of my knowledge and belief.

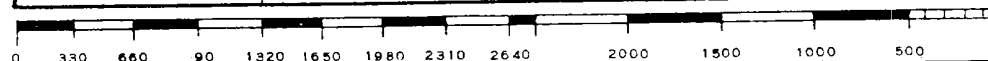
Date Surveyed
August 9, 1977

Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No.

3950



SURFACE USE AND OPERATIONS PLAN


Merrion & Bayless
Chaco #11
Section 1, T26N, R13W

- 1 & 2. A topographical map is attached showing location of drillsite and access roads to location. The terrain is relatively flat and no new roads will be built. A drive-in Truck-mounted drilling rig will be used and will be driven in to the location with our road work.
3. Wells within one mile radius are shown on the topographical map.
4. There are no existing or proposed facilities.
5. Water will be hauled from the San Juan River by truck.
6. No construction materials will be used.
7. Drill cuttings will be placed in a pit and covered when dry and location will be cleaned after work on well is completed.
8. No ancillary facilities.
9. Wellsite layout attached.
10. Restoration of drillsite -- pits will be filled and leveled and area reseeded to BLM specifications.
11. Other information: the drillsite is fairly level, arid land with very little vegetation. There is no other surface use or facilities existent. An archeological survey statement will be furnished.
12. Operator representative: Robert L. Bayless
P.O. Box 1541
Farmington, NM 87401 (505) 325-5093
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 Merrion and Bayless and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date

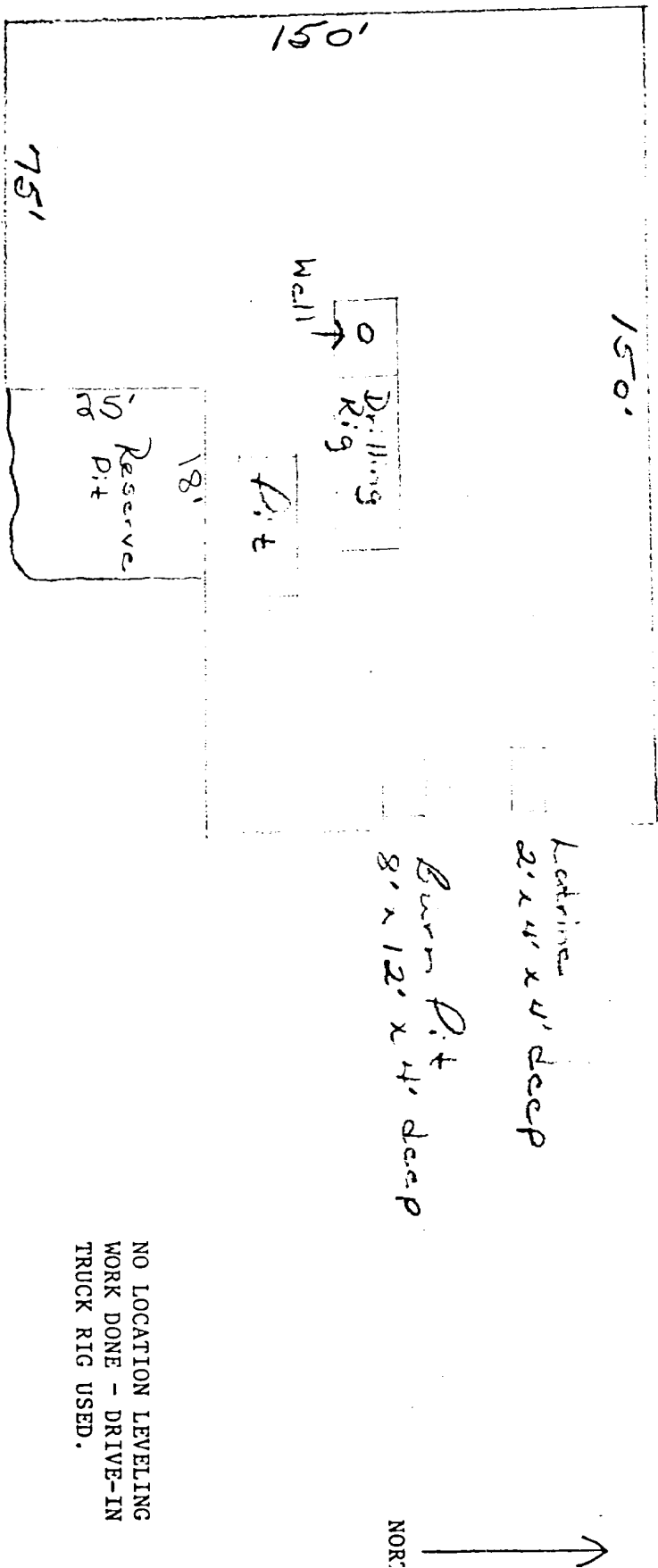
8-10-77


ROBERT L. BAYLESS
Co-Owner

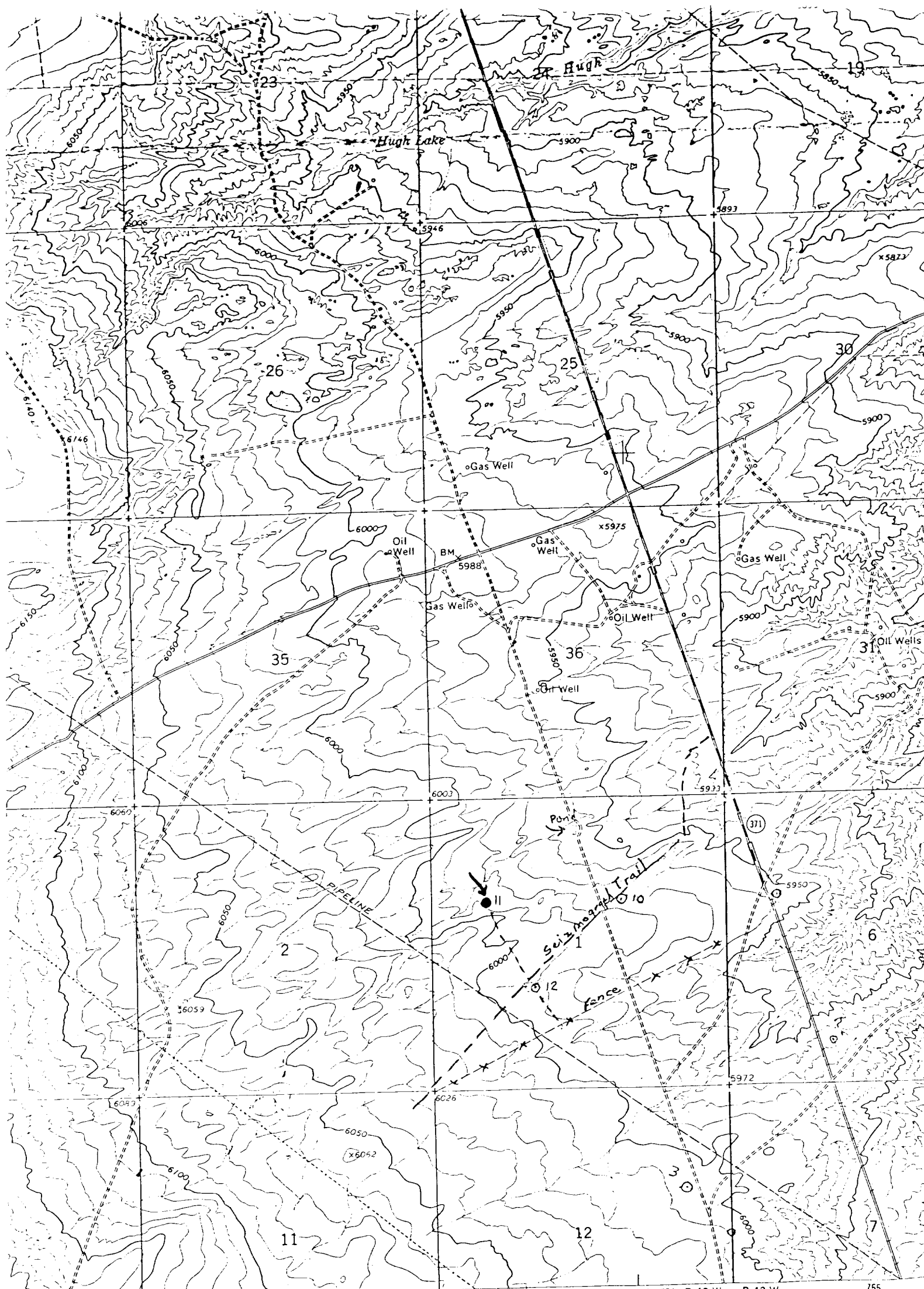
LOCATION AND EQUIPMENT LAY-OUT

MERRION & BAYLESS
Chaco #11
Section 1, T26N, R13W

Shallo

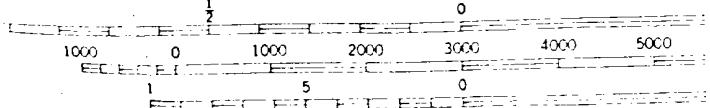


NO LOCATION LEVELING
WORK DONE - DRIVE-IN
TRUCK RIG USED.



(MONCISCO WASH)
4355 1 NW

SCALE 1:24000



CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

Vicinity Map for
MERRION & BAYLESS #11 Chaco
1850'FWL 990'FWL Sec 1-T26N-R13W
San Juan County, New Mexico



MERRION & BAYLESS

Chaco #11
Section 1, T26N, R13W
San Juan County, New Mexico

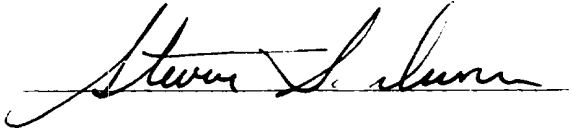
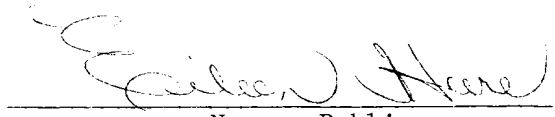
SLOPE TESTS

<u>Depth</u>	<u>Hole Deviation</u>
480 ft.	1/8°
1300 ft.	1/4°

State of New Mexico)
) ss
County of San Juan)

I, STEVEN S. DUNN, being first duly sworn, depose and state that the above and foregoing depth and hole deviation figures are true and correct to the best of my information and belief.

Subscribed and sworn before me this 27th day of September, 1977.



Notary Public

My Commission Expires 9-20-80

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date: 9-21-77				
Company: Merrion & Bayless						Connection:				
Pool: NIPP						Formation: Picture Cliff		Unit:		
Completion Date: 9-19-77			Total Depth: 1300 ft.		Plug Back TD: 1274' G.L.		Elevation: 5987' G.L.		Farm or Lease Name: Chaco	
Test Size: 2-7/8	Wt. d: 6.4 lb/ft	2.441	Set At: 1297	Perforations: From 1202' To 1218'		Well No. 11				
Thg. Size:	Wt. d:		Set At:	Perforations: From To		Unit Sec. Twp. Rge.				
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single (no tubing)						Packer Set At:		County: San Juan		
Producing Thru: Casing		Reservoir Temp. °F: 79° @ 1220'		Mean Annual Temp. °F: 50°F		Baro. Press. - P _a : 12.2 PSIA		State: N.M.		
L: 1210	H: 1210	G _g : 0.65 Est.	% CO ₂ :	% N ₂ :	% H ₂ S:	Prover: 2"	Meter Run:	Taps:		

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	Initial								236	60°	
1.	2"		1"	46					47 PSIG	58.5°	1 hr.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft _i	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	17.09		58.2	1.001	1.240	1.001	1236 MCF/day
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____
3					Specific Gravity Flowing Fluid _____
4					Critical Pressure _____ P.S.I.A.
5					Critical Temperature _____ °R

P _c 248.2	P _c ² 61,603			
NO.	P _w	P _w ²	P _c ² - P _w ²	
1	3,387	3,390	58,213	
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.058$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1296$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.049$$

Absolute Open Flow: 1,296 Mcfd @ 15.025	Angle of Slope θ: _____	Slope, n: 0.85
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Remarks: _____

Approved By Commission:	Conducted By: <i>Steven S. Dunn</i>	Calculated By: <i>Steven S. Dunn</i>	Checked By: <i>Robert L. Bayless</i>
	Steven S. Dunn	Steven S. Dunn	Robert L. Bayless