STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
AUG 31 1984
OIL CON. DIV.
DIST.

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 8-6-84
Company: Consolidated Oil & Gas		Connection: Gas Co. of New Mexico		Unit
Pool: Basin Dakota		Formation: Dakota		
Completion Date: 7-24-84	Total Depth: 6640'	Plug Back TD: 6594'	Elevation: 6745'KB	Farm or Lease Name: Navajo
Csg. Size: 5-1/2" / Wt.: 15.5# / d: 4.950" / Set At: 6636'		Perforations: From 6526' To 6568'		Well No.: 3-E
Tbg. Size: 1-1/2" / Wt.: 2.9# / d: 1.610" / Set At: 6558		Perforations: From To		Unit: K / Sec.: 11 / Twp.: 25N / Rge.: 10W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: single		Packer Set At: none		County: San Juan
Producing Thru: tubing	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.0	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.650est				6"positive choke		nipple

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI	7 days				1749		1763		
1.	2"x6"x3/4"				192	60	624	60	3 hours
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	11.00		204	1.000	1.240	1.021	2841
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_f	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1775 P_c^2 3150625

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		636	404496	2746129
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1473$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1086$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3140$

Absolute Open Flow 3140 Mcfd @ 15.025 Angle of Slope θ 53.13 Slope, n .75

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Richard Housh	Richard Housh	Neil Tefteller

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-26009

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Consolidated Oil & Gas, Inc.

3. ADDRESS OF OPERATOR: P.O. Box 2038, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1520' FSL & 1520' FWL (NE/SW)(K)
At proposed prod. zone: Same

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FARMINGTON, NEW MEXICO

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Navajo ~~Com~~
9. WELL NO.: 3E
10. FIELD AND POOL, OR WILDCAT: Basin Dakota
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 11, T25N, R10W
12. COUNTY OR PARISH: San Juan
13. STATE: N.M.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 1-1/2 miles north of Huerfano Trading Post, N.M.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1520'
16. NO. OF ACRES IN LEASE: 320
17. NO. OF ACRES ASSIGNED TO THIS WELL: 320
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 2560'
19. PROPOSED DEPTH: 6680'
20. ROTARY OR CABLE TOOLS: Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6732'GR
22. APPROX. DATE WORK WILL START*: June 1984

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

This action is subject to administrative appeal pursuant to 30 CFR 290.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24.0#	250'	171 cu ft circ to surface
7-7/8"	5-1/2"	15.5#	6680'	850 cu ft in 2 stages
				Exact volumes will be calculated from logs

1. Drill 12-1/4" hole to 250'. Run & cement 8-5/8" casing. Circulate cement to surface. Wait on cement 12 hours.
2. Install & pressure test BOP & casinghead to 1500 psi for 30 min.
3. Drill 7-7/8" hole to TD. Run electric & radioactive logs.
4. Run 5-1/2", 15.5# production casing & cement in two stages.
5. Perforate Dakota sand. Stimulate & complete as per regulations.

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JUN 2 3 1984
OIL CON. DIV.
DIST. 3

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 Barney Foran TITLE Drilling Foreman DATE 6-20-84

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED
JUN 26 1984
DATE
S/James E. Edwards, J.
acting AREA MANAGER
FARMINGTON RESOURCE AREA

*See Instructions On Reverse Side

NMOCC

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
CONSOLIDATED OIL & GAS, INC.	NAVAJO	3E

Unit Letter	Section	Township	Range	County
K	11	25 NORTH	10 WEST	SAN JUAN

Actual Footage Location of Well:
1520 feet from the SOUTH line and 1520 feet from the WEST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6732	Dakota	Basin Dakota	320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

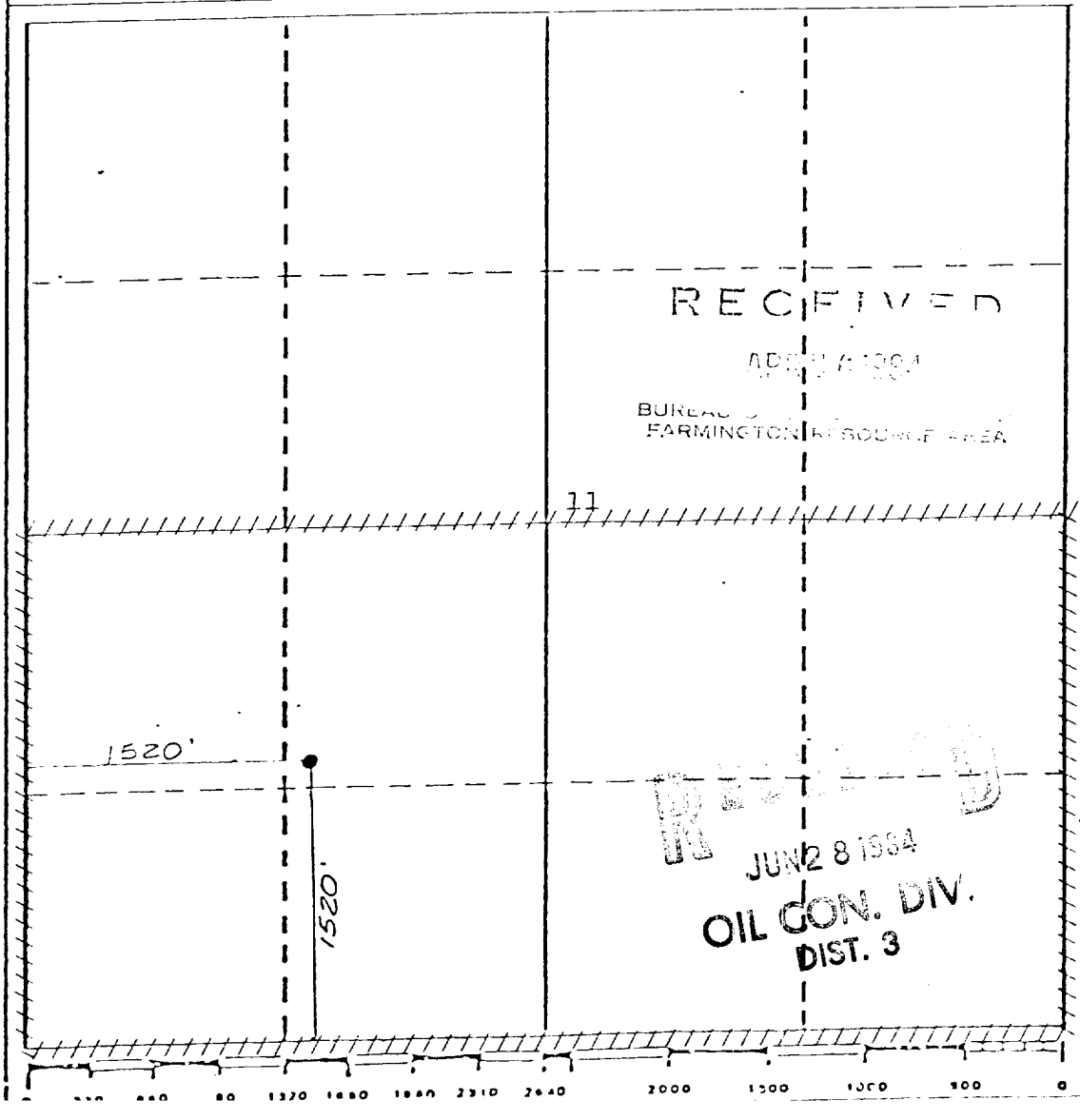
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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?

[X] Yes [ ] No If answer is "yes," type of consolidation communitization

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 Division.



CERTIFICATION

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

Name: Barney Jones

Position: Drilling Foreman

Company: Consolidated Oil & Gas, Inc.

Date: April 20, 1984

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.

MICHAEL DALY NEW MEXICO 5992 REGISTERED PROFESSIONAL LAND SURVEYOR

Date Surveyed: March 28, 1984

Registered Professional Engineer and/or Land Surveyor: Michael Daly

Certificate No. 5992