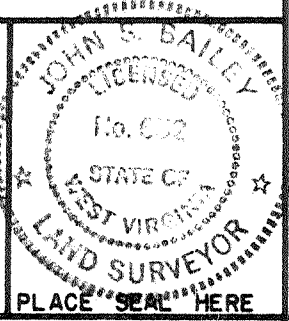


PREPARED BY MSES CONSULTANTS

FILE NO. MSES 84-292
 DRAWING NO. _____
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION ROAD JCT. 11 & 11/4 EL. 816

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) John S. Bailey
 P.E. _____ L.L.S. 652



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)

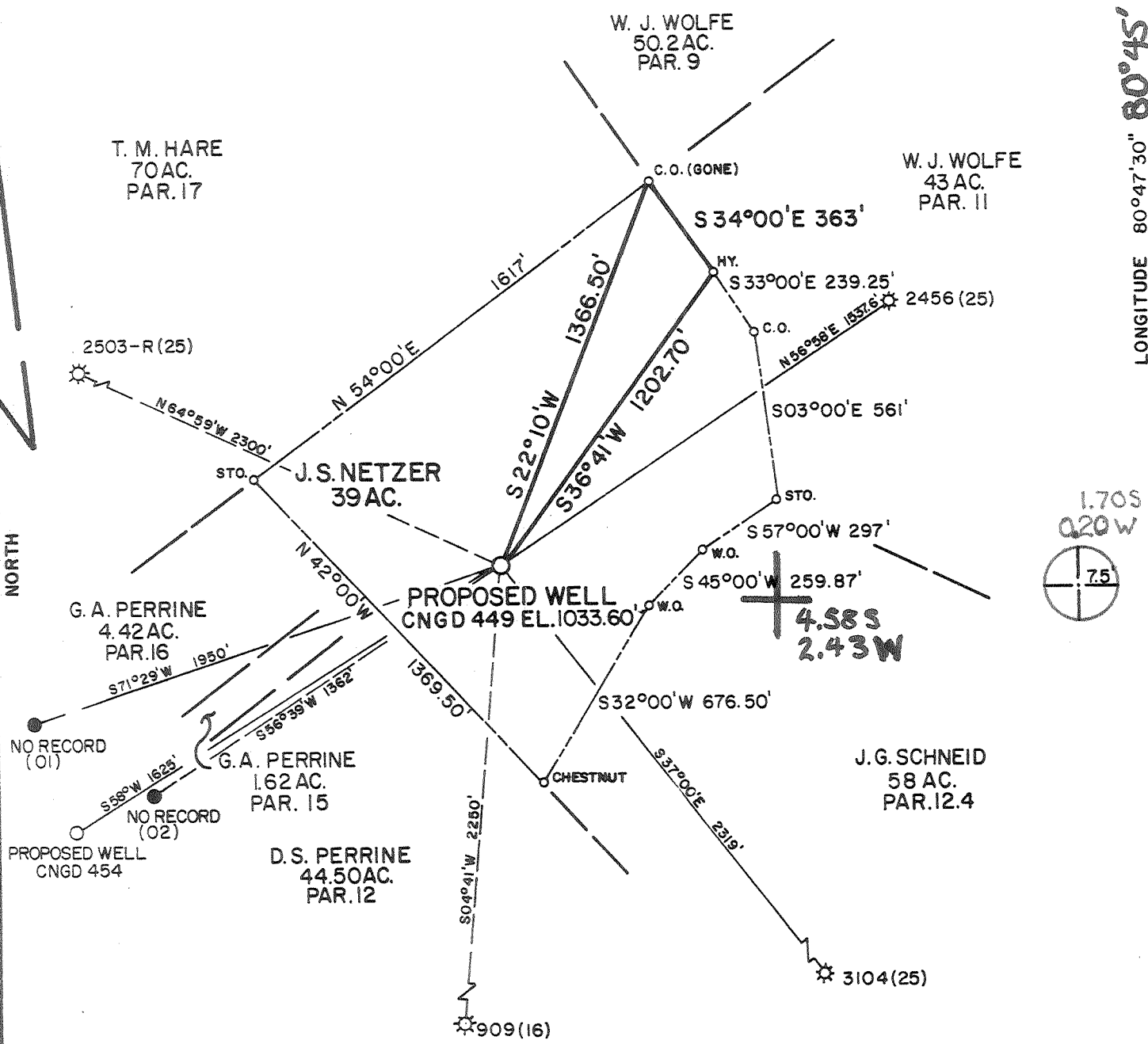


Department of Mines
 Oil & Gas Division

DATE JANUARY 20 1984
 OPERATOR'S WELL NO. CNGD 449-W
 API WELL NO. 47 - 017 - 3291-7
 STATE COUNTY PERMIT

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X)
 LOCATION: ELEVATION 1033.60' WATER SHED LEFT FORK
 DISTRICT WEST UNION COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5' (1976)
 SURFACE OWNER JAMES A. GAIN ACREAGE 39
 OIL & GAS ROYALTY OWNER J.S. & J. NETZER LEASE ACREAGE 85
 LEASE NO. 35099
 PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION ✓ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5350'
 WELL OPERATOR CNG Producing DESIGNATED AGENT Bob Biggs
 ADDRESS Some ADDRESS _____ CROSSWIND CORPORATE PARK
 ROUTE 2 BOX 698
 BRIDGEPORT, W.V. 26330

0000 3291



PREPARED BY MSES CONSULTANTS

FILE NO. MSES 84-292
 DRAWING NO. _____
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION ROAD JCT. 11 & 11/4 EL. 816

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) John L. Bailus
 M.P.E. _____ L.L.S. 652



PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6
(8-78)



Department of Mines
Oil & Gas Division

DATE JANUARY 20, 19 84
 OPERATOR'S WELL NO. CNGD 449
 API WELL NO. _____
47 - 017 - 3291
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL. _____
 (IF "GAS", PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X)
 LOCATION: ELEVATION 1033.60' WATER SHED LEFT FORK
 DISTRICT WEST UNION COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5' (1976) 691 West Union 15' SE
 SURFACE OWNER JAMES A. GAIN ACREAGE 39
 OIL & GAS ROYALTY OWNER J.S. & J. NETZER LEASE ACREAGE 85
 LEASE NO. 35099
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW
 FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG _____
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5350'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS ONE PARK RIDGE CENTER 142 ADDRESS CROSSWIND CORPORATE PARK
PITTSBURGH, PA. 15219 ROUTE 2, BOX 698
BRIDGEPORT, W.V. 26330

MAR 10 1984

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: GAIN, JAMES A Operator Well No.: CNGP 449W

LOCATION: Elevation: 1,033.00 Quadrangle: WEST UNION

District: WEST UNION County: DODDRIDGE
Latitude: 9025 Feet South of 39 Deg. 17Min. 30 Sec.
Longitude 1100 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: CNG PRODUCING COMPANY
ROUTE 2, BOX 698
BRIDGEPORT, WV 26330-0698

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD
Permit Issued: 06/22/93
Well work Commenced: 08/04/93
Well work Completed: 09/07/93
Verbal Plugging
Permission granted on: _____
Rotary _____ Cable _____ Rig _____
Total Depth (feet) _____
Fresh water depths (ft) _____
Salt water depths (ft) _____
Is coal being mined in area (Y/N)? _____
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
No Additional Casing Ran			

OPEN FLOW DATA

Balltown	3752-67
Speechley	3232-3365
Gordon	2570-82
Injun	1924-86

Producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/
 Final open flow * 516 MCF/d Final open flow _____ Bbl/
 Time of open flow between initial and final tests _____ Hour
 Static rock Pressure 650 psig (surface pressure) after 48 Hour
 *Commingled with existing production

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/
 Final open flow _____ MCF/d Final open flow _____ Bbl/
 Time of open flow between initial and final tests _____ Hour
 Static rock Pressure _____ psig (surface pressure) after _____ Hour

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WEL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Rodney J. Biggs, Manager
CNG PRODUCING COMPANY

Reviewed TMG
Recorded _____

By: Rodney Biggs
Date: September 13, 1993

SEP 13 1993

Perforated Balltown 3752-67, 18 holes, .39 HCS
 Speechley 3232-3365, 25 holes, .39 HSC

Frac:	Balltown	Speechley
Break	2080	2030
AVE HHP	2100	1500
Ave Rate	27	265
Ave Pres.	3136	2280
Max Tr Pres.	3550	2500
Total Acid	500	500
Total Sand	13100	45000
Max Conc.	2#/g	3#/g
Total Fluid	381	645
SL Fluid	178	441
ISIP	1500	1700
5 min	1300	1100
Total N ₂	46450 SCF	83050 SCF

Perforated Gordon 2570-82, 18 holes, .39" HSC
 Injun 1924-86, 25 holes, .39" HSC

Frac:	Gordon	Injun
Break	2250	2500
Avg. HHP	1750	1500
Ave Rate	27	25
Ave Pres.	2650	2400
Max. Tr Pres.	2750	3800
Total Acid	500	500
Total Sand	5000/35000	5000/28000
Max Conc.	4#/g	3#/g
Total Fluid	540	355
SL Fluid	401	289
ISIP	1650	Screen out
5 min	1300	

DF-426

DF-439

ID-5350

17380



IV-3
(Rev) **RECEIVED**
JUN 13 1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date 05/30/84
Operator's
Well No. CNGD 449
Farm J.S. Netzer
API No. 47 - 017 - 3291

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1033.6 Watershed Left Fork
District: West Union County Doddridge Quadrangle West Union 7.5' (1976)

COMPANY CNG DEVELOPMENT COMPANY
ADDRESS P O BOX 15746, PITTSBURGH, PA 15275
DESIGNATED AGENT GARY A. NICHOLAS
ADDRESS RT 2, BOX 698, BRIDGEPORT, WV 26330
SURFACE OWNER JAMES A. GAIN
ADDRESS RT 1, WEST UNION, WV 26456
MINERAL RIGHTS OWNER J.S. NETZER HEIRS
c/o FIRST NATIONAL BANK OF WEST UNION
ADDRESS WEST UNION, WEST VIRGINIA 26456
OIL AND GAS INSPECTOR FOR THIS WORK
H.M. Underwood ADDRESS Rt. 2, Box 114 Salem, WV 26426
PERMIT ISSUED 03/16/84
DRILLING COMMENCED 04/24/84
DRILLING COMPLETED 05/01/84

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
11 3/4 12-10"	36'	0	
9 5/8			
8 5/8	1555	1555	To Surf
7			
5 1/2			
4 1/2	5312	5312	450 sks
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Alexander Depth 5350 feet
Depth of completed well 5350 feet Rotary X / Cable Tools
Water strata depth: Fresh 72' feet; Salt feet
Coal seam depths: 10' - 15' 1425' - 1430' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5106' - 5172 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 1476 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 1250 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

McCullough Perforated; 5106; 1 hole
 5130; 1 hole
 5133; 1 hole
 5136; 1 hole
 5144 - 5148; 3 holes
 5160 - 5164; 3 holes
 5172; 1 hole
 Total 11 holes (.39")

Halliburton Foam Fractured; 70,000# 20/40 sand, 820,000 SCF N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	10	10' - 15' Coal
Coal			10	15	1425' - 1430' Coal
R.R., Sd & Sh			15	1425	72' - 1/4" Stream water
Coal			1425	1430	
Sd & Sh			1430	1770	
Sd & Lime			1770	1815	
Big Lime			1815	1930	
Injun Sd			1930	2005	
Sd & Sh			2005	5350	
<u>LOG TOPS</u>					
Big Injun			1900	1987	
Weir			2147	2246	
Gantz			2338	2350	
Gordon Stray/Gordon			2567	2716	
4th			2726	2766	
Warren			3200	3256	
Upper Speechley			3313	3376	
Speechley			3583	3720	
Balltown			3958	4200	
Bradford			4394	4452	
Riley			4618	4782	
Benson			4836	4846	
Alexander			5091	5180	

T.D. 5350

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY

Well Operator

By: *Nancy A. [Signature]*

Date: May 30, 1984

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

- 1) Date: 4-29-93
- 2) Operator's well number CNGP 449W
- 3) API Well No: 47 - 017 - 3291-FRAC
State - County - Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name James A. Gain
Address Route 1
West Union, WV 26456
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, WV 26426
Telephone (304) - 782-1043

- 5) (a) Coal Operator:
 - Name _____
Address _____
- (b) Coal Owner(s) with Declaration
 - Name N/A
Address _____
- (c) Coal Lessee with Declaration
 - Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
x Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:
_____ Personal Service (Affidavit attached)
x _____ Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator CNG Producing Company
By: Rodney J. Biggs *RJ Biggs*
Its: Designated Agent - District Manager, Production
Address Rt. 2, Box 698, Crosswind Corp. Park
Bridgeport, WV 26330
Telephone (304) 623-8840

Subscribed and sworn before me this 29th day of April, 1993

Nancy D. Colton
My commission expires September 26, 1993 Nancy D. Colton Notary Public



1) Date: February 7, 19 84
 2) Operator's Well No. 449
 3) API Well No. 47 - 017 - 3291
 State _____ County _____ Permit _____

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1033.6 Watershed: Left Fork
 District: West Union County: Doddridge Quadrangle: West Union 7.5' (1976)
- 6) WELL OPERATOR CNG Development Company 7) DESIGNATED AGENT Mr. Gary Nicholas
 Address One Park Ridge Center, P.O. Box 15746 Address Crosswind Corporate Park
Pittsburgh, PA 15244 Rt. 2, Box 698, Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Mr. H. M. Underwood Name Sam Jack Drilling Company
 Address Rt. 2, Box 114 Address P. O. Box 48
Salem, WV 26426 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander
- 12) Estimated depth of completed well, 5350 feet
- 13) Approximate strata depths: Fresh, 471 feet; salt, N/A feet.
- 14) Approximate coal seam depths: 596-598 Is coal being mined in the area? Yes _____
- 15) CASING AND TUBING PROGRAM

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 FEB 14 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR (SACKS) (Cubic Feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	11-3/4	H-40	42	X		30	30	To surface	By rule 15.05
Coal									Sizes
Intermediate	8-5/8	X-42	23	X		1200	1200	To surface	By Rule 15.05
Production	4-1/2	J-55	10.5	X		5350	5350	200-400	Depths set
Tubing	1-1/2	CN-55	2.75	X				OIR AS	RED BY RULE 15.05
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3291 Date March 16, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires March 16, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Agent: <u>ls</u>	Plat: <u>MH</u>	Casing <u>MH</u>	Fee <u>000-239</u>
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[Signature]
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.