

**NOTES ON PLAT**

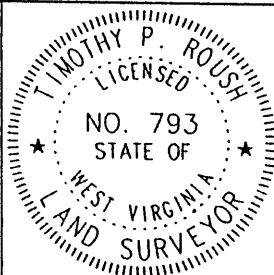
- 1 - The survey shown hereon is from the original drilling permit dated 7/30/96.
- 2 - Surface owner information obtained from the Wetzel County Assessor's tax records 4/3/03.
- 3 - As-drilled Latitude and Longitude measured 3/26/02 by DGPS (Sub-Meter Mapping Grade).

(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 325  
 MAP NO. N68 N 11 S E W 2  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION USGS BM = 838'

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) [Signature]  
 TIMOTHY P. ROUSH PS 793



WEST VIRGINIA  
 Division of Environmental Protection  
 Office of Oil and Gas  
 1356 Hansford St.  
 Charleston, West Virginia 25301



DATE April 7, 2003  
 FARM L.S. Hoyt NO. 107  
 API WELL NO. 47-103-01710-F

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1,444' WATERSHED Betsy Run  
 DISTRICT Grant COUNTY Wetzel  
 QUADRANGLE Pine Grove 7.5'  
 SURFACE OWNER Dallison Lumber Inc. ACREAGE 2099.3 Ac.  
 OIL & GAS ROYALTY OWNER The Hoyt Foundation LEASE ACREAGE 2100 Ac.  
 LEASE NO. 52265-50  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION Gordon ESTIMATED DEPTH 3,503'  
 WELL OPERATOR East Resources, Inc. DESIGNATED AGENT Michael McCown  
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519  
Vienna, W.Va. 26105 Vienna, W.Va. 26105

(Pine Grove - Campden 40) 8-0

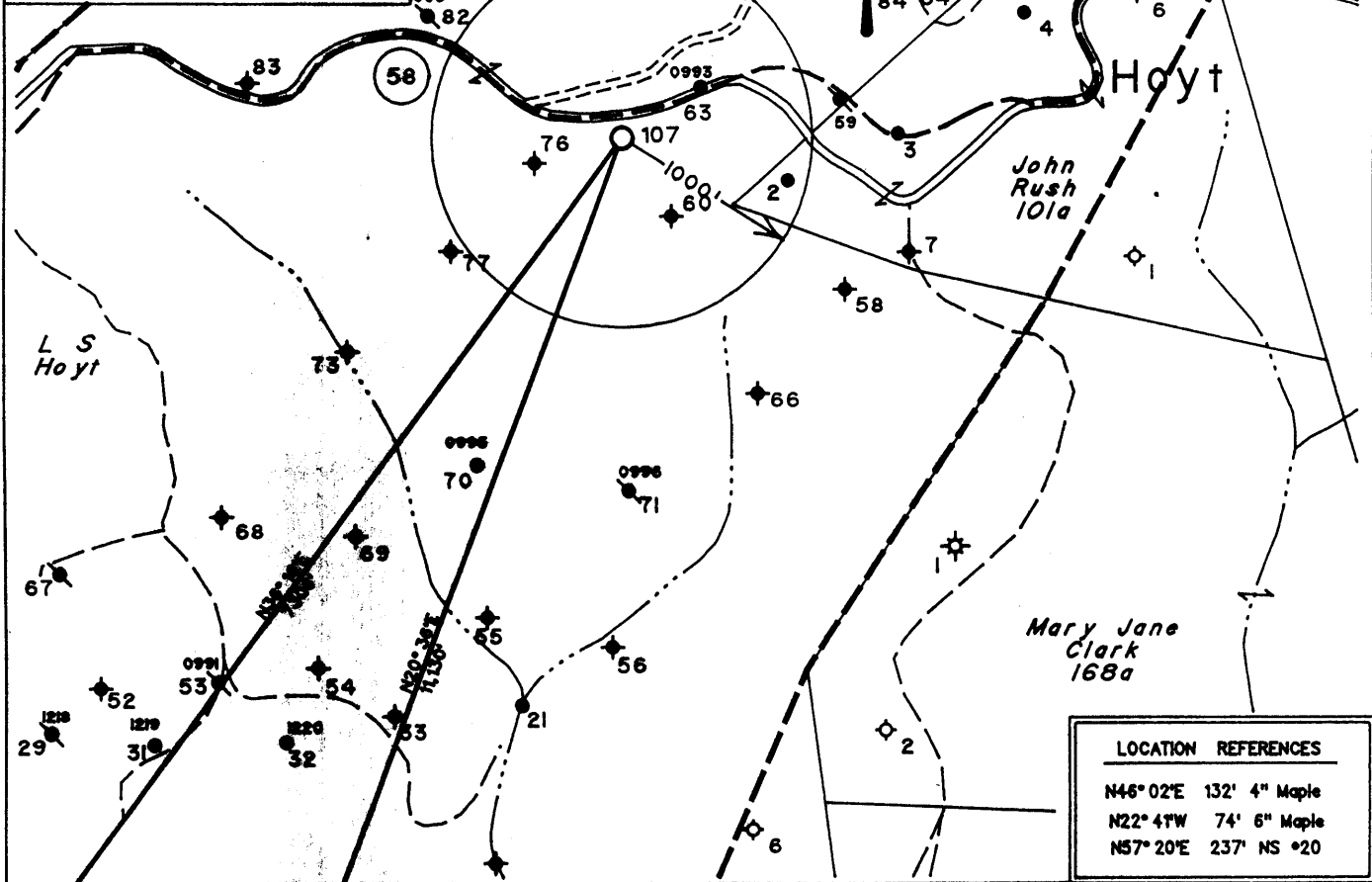
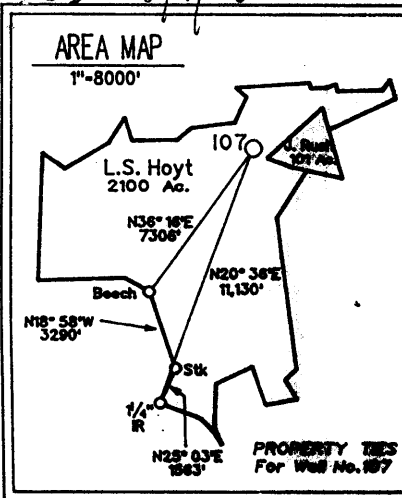
5,850'

LATITUDE 39° 37' 30"

LONGITUDE 80° 37' 30"

5,200'

8/2/96



LOCATION REFERENCES	
N46° 02'E	132' 4" Maple
N22° 41'W	74' 6" Maple
N57° 20'E	237' NS #20

Note: No Known Water Supply Sources Are Located Within 1000' Of Proposed Well

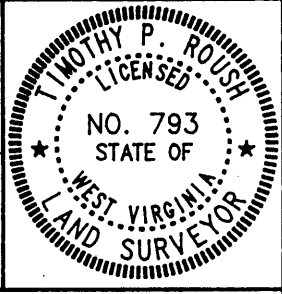
◆ Denotes a Water Supply Source

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

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(SIGNED) Timothy P. Roush  
 TIMOTHY P. ROUSH PS 793



STATE OF WEST VIRGINIA  
 DIVISION OF ENERGY  
 OIL AND GAS SECTION



DATE July 30, 19 96  
 FARM L.S. Hoyt NO. 107  
 API WELL NO. 47-103-01710-S

WELL TYPE: OIL    GAS    LIQUID INJECTION X WASTE DISPOSAL     
 (IF "GAS") PRODUCTION    STORAGE    DEEP    SHALLOW     
 LOCATION: ELEVATION 1444' WATERSHED Betsy Run  
 DISTRICT Grant COUNTY Wetzel  
 QUADRANGLE Pine Grove  
 SURFACE OWNER Dallis Lumber Inc. ACREAGE 2099.3 Ac.  
 OIL & GAS ROYALTY OWNER The Hoyt Foundation LEASE ACREAGE 2100 Ac.  
 LEASE NO. 52265-50  
 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)   

AUG 28 1996

PLUG AND ABANDON    CLEAN OUT AND REPLUG     
 TARGET FORMATION Gordon ESTIMATED DEPTH 3434'  
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT Philip S. Ondrusek  
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519  
Vienna, W.Va. 26105 4670 ADDRESS Vienna, W.Va. 26105

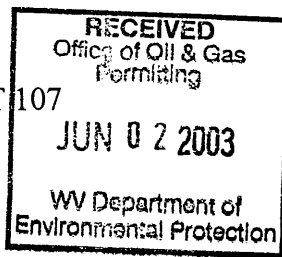
FORM IV-6

9-0 40

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

h 17

Well Operator's Report of Well Work



Farm name: DALLISON LUMBER CO.  
LOCATION: Elevation: 1,444.00  
District: GRANT  
Latitude: 5,200 Feet south of  
Longitude: 5,850 Feet west of

Operator Well No.: L. S. HOYT 107  
Quadrangle: PINEGROVE  
County: WETZEL  
39 Deg 37 Min 30 Sec.  
80 Deg 37 Min 30 Sec.

Company: EAST RESOURCES, INC.  
P.O. BOX 5519  
VIENNA, WV 26105-5519  
Agent: MICHAEL MCCOWN  
Inspector: MIKE UNDERWOOD  
Permit Issued: 04/25/03  
Well work Commenced: 05/22/03  
Well work Completed: 05/28/03  
Verbal plugging permission granted on:  
Rotary X Cable      Rig       
Total Depth (feet) 3,503  
Fresh water depths (ft) NA  
     NA  
Is coal being mined in area (Y/N) NA  
Coal Depths (ft): 1332-1342

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	1381.28	1381.28	585 sks
4 1/2"	3388.00'	3388.00'	275 sks

OPEN FLOW DATA

\* Waterflood injection well

Producing formation Gordon Pay zone depth (ft) 3378-3387  
Gas: Initial open flow \* MCF/d Oil: Initial open flow \* Bbl/d  
Final open flow \* MCF/d Final open flow \* Bbl/d  
Time of open flow between initial and final tests      Hours  
Static rock pressure      psig (surface pressure) after      Hours

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

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

For: EAST RESOURCES INC.  
By: [Signature]  
Date: 5/29/03

JUN 13 2003

WET-1710

**Treatment:** Treated Gordon perforations 3383'-3387' with 500 gals 15% HCL, 363 bbls Crosslinked gel water and 20,000# 20/40 sand

**Well Log** See original well log

JAN 06 1997

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

Well Operator's Report of Well Work

Permitting  
Office of Oil & Gas

Farm name: Dallison Lumber Company

Operator Well No.: L.S. Hoyt #107

LOCATION: Elevation: 1,444.00

Quadrangle: Pine Grove

District: Grant

County: Wetzel

Latitude: 5,200 Feet south of

39 Deg 37 Min 30 Sec.

Longitude: 5,850 Feet west of

80 Deg 37 Min 30 Sec.

Company: PENNZOIL PRODUCTS COMPANY  
P.O. BOX 5519  
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: Randal Mick

Permit Issued: 8/20/96

Well work Commenced: 11/21/96

Well work Completed: 12/16/96

Verbal plugging

permission granted on:

Rotary  Cable  Rig

Total Depth (feet) 3503'

Fresh water depths (ft) NA

Salt water depths (ft) NA

Is coal being mined in area (Y/N) N

Coal Depths (ft): 1332-1342

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1381.28'	1381.28'	585 Sacks
4 1/2"	3388.00'	3388.00'	275 Sacks

OPEN FLOW DATA

\*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 3378-3387

Gas: Initial open flow \* MCF/d Oil: Initial open flow \* Bbl/d

Final open flow \* MCF/d Final open flow \* Bbl/d

Time of open flow between initial and final tests \* Hours

Static rock pressure \* psig (surface pressure) after Hours

Second producing formation Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

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

For: PENNZOIL PRODUCTS COMPANY

By:

Date: 12/24/96

JAN 10 1997

**Treatment:**

**Perforations:**

**3383-3387 -4 holes/ft. (16 holes)**

**Teatment:**

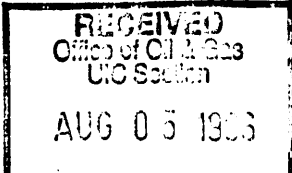
**Treated via 4.5" Casing with 300 gals. 15% HCl, 176 bbls.**

**Borate cross-linked gelled water and 11,400 lbs. of 20/40 sand.**

**Well Log:**

**TD - 3503'**

Sand & Shale	0	-	1332
Pittsburg Coal	1332	-	1342
Shale	1342	-	1420
Sand	1420	-	1436
Shale	1436	-	1462
Sand	1462	-	1522
Shale	1522	-	1830
Sand	1830	-	1852
Shale	1852	-	1982
Sand	1982	-	2018
Shale	2018	-	2278
Sand	2278	-	2326
Shale	2326	-	2360
Sand	2360	-	2386
Shale	2386	-	2506
Big Lime	2506	-	2568
Big Injun	2568	-	2774
Shale	2774	-	3346
Gordon Stray	3346	-	3369
Shale	3369	-	3378
Gordon	3378	-	3387
Shale	3387	-	3503



1) Date July 30, 1996  
 2) Well No. L.S. Hoyt No.107  
 3) SIC Code \_\_\_\_\_  
 4) API Well No. 47 - 103 - 1710-LI  
 State County Permit  
 5) UIC Code \_\_\_\_\_

*Issued 08/20/96*

*Expires 08/20/98*

STATE OF WEST VIRGINIA  
 NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

for the  
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

22411

WELL TYPE: Liquid Injection X Gas Injection \_\_\_\_\_ Waste Disposal \_\_\_\_\_

LOCATION: Elevation 1444 Watershed Betsy Run  
 District Grant County Wetzel Quadrange Pine Grove *548*

WELL OPERATOR: Pennzoil Products Company 9) DESIGNATED AGENT: Philip S. Ondrusek  
P.O. Box 5519 P.O. Box 5519  
Vienna, WV 26105 Vienna, WV 26105

10) OIL & GAS INSPECTOR TO BE NOTIFIED:  
 Name Randal Mick  
 Address 111 Blackshere Drive  
Mannington, WV 26582

11) DRILLING CONTRACTOR:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_

12) PROPOSED WELL WORK: Drill X Drill Deeper \_\_\_\_\_ Redrill \_\_\_\_\_ Stimulate X  
 Plug Off Old Formation \_\_\_\_\_ Perforate New Formation \_\_\_\_\_ Convert \_\_\_\_\_  
 Other Physical Change in Well (specify) \_\_\_\_\_

13) Geological target formation Gordon *419* Depth 3334 Ft. (Top) t 3349 Ft. (Bottom)

14) Estimated depth of completed well (or actual depth of existing well) 3434 Ft.

15) Approximate water strata depths: Fresh 624 Ft. Salt 1744 Ft.

16) Approximate coal seam depths: 1244 Ft.

17) Is coal being mined in the area? Yes X No

18) Virgin reservoir pressure in target formation: 1400 psig. Source Estimated

19) Estimated reservoir fracture pressure: 3500 psig.

20) Maximum proposed injection operations: Volume per hour 25 bbl. Bottom Hole Pressure 2332 psig.

21) Detailed identification of materials to be injected, including additives: Fresh water, produced water, bactericides and other chemicals as needed to maintain water quality and improve oil recovery.

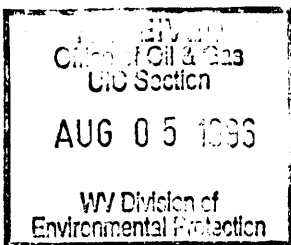
22) Filters (if any): Cartridge filters and/or coal bed filters

23) Specifications for cathodic protection and other corrosion control: \_\_\_\_\_

24) CASING AND TUBING PROGRAM:

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS	PACKERS
	Size	Grade	Weight	New	Used	For Drilling	Left in Well		
Conductor									Kinds
Fresh Water	8 5/8"	L.S.	20#	X		1294	1294	Cement To	
Coal								Surface	Sizes
Intermediate									
Production	4 1/2"	J-55	10.5#	X		3434	3434	Cement Over	Depths Set
Tubing								Salt Sand	
Liners									Perforations
									Top Bottom

25) APPLICANTS OPERATING RIGHTS were acquired from L.S. Hoyt et al.  
 by Deed \_\_\_\_\_ Lease X Other Contract \_\_\_\_\_ Dated Jan. 6, 1902 of record in the  
Wetzel County Clerk's Office in Lease Book 76 at Page 300



1) Date July 30, 1996  
2) Well No. L.S. Hoyt No.107  
3) SIC Code \_\_\_\_\_  
4) API Well No. 47 - 103 - 1710-01  
State County Permit

**STATE OF WEST VIRGINIA**  
**NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION**  
for the  
**DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY**

6) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Dallison Lumber Inc.  
Address Route 2, Box 50  
Jacksonburg, WV 26377  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

7 (i) COAL OPERATOR:

Name N/A  
Address \_\_\_\_\_

7 (ii) COAL OWNER WITH DECLARATION ON RECORD:

Name DUPECH, Inc.  
Address 6451 Pleasant St.  
Library, PA 15129

7(iii) COAL LESSEE WITH DECLARATION ON RECORD:

Name N/A  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work, and
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

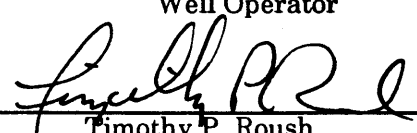
The date proposed for the first injection or waste disposal is \_\_\_\_\_

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Director of the Division of Oil and Gas, West Virginia Department of Energy, with respect to a well at the location described on the attached Application and depicted on attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Director.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document 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."

Pennzoil Products Company  
Well Operator  
By   
Timothy P. Roush  
Supervisor, Surveying/Mapping  
Telephone (304) 422-6565



OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-103-1710-LI

august 20th. 1996 19  
Date

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 (if required) construction and reclamation plan, subject to any modifications and conditions specified below.

Permit expires 8-20-98 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: <i>MS</i>	Casing: <i>MS</i>	Fee: CK#
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0301284702

*Michael W. Lewis*  
CHIEF, OFFICE OF OIL AND GAS

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

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

OFFICE USE ONLY

This part of Form IV-3(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Follow-up inspection(s)	Date(s)
Application received			
Well work started		" "	
Total depth reached		" "	
Well Record received		" "	
Reclamation completed		" "	

OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_