

MABEL HILL LEASE 36.25 ACRES±

JOHN A. YANOSKI
39.07 ACRES±
(SURFACE)

DAVID ASH (LIFE)
131.34 ACRES±
(SURFACE)

JAMES A. & WILMA Z. HILL
36.25 ACRES±
(SURFACE)

THOMAS ROMINE
30 ACRES±
(SURFACE)

JAMES A. & WILMA Z. HILL
36.25 ACRES±
(SURFACE)

JAMES A. & WILMA Z. HILL
33.25 ACRES±
(SURFACE)

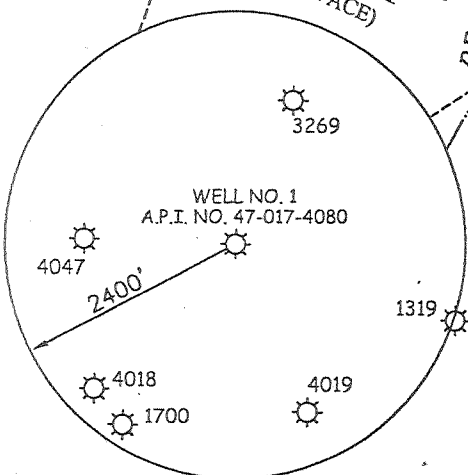
JAMES & WILMA HILL
34.87 ACRES±
(SURFACE)

WELL NO. MABEL HILL #1 A.P.I. NO. 47-017-4080

NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 167 PAGE 754.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JULY, 2006.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

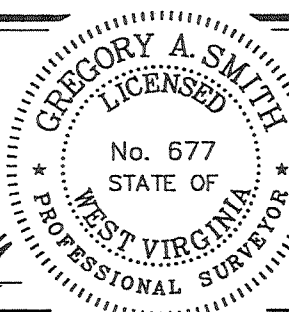
WELL NO. 1
A.P.I. NO. 47-017-4080
STATE PLANE
COORDINATES
(N) 309,662
(E) 1,672,681



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677

Gregory A. Smith



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

DATE JUNE 04, 20 07

OPERATORS WELL NO. MABEL HILL #1

API WELL NO. 47 - 017 - 4080 F
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 6459P1 (238-01)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 500'

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



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1,051' WATERSHED TRIBUTARY OF FLINT RUN DISTRICT GRANT COUNTY DODDRIDGE QUADRANGLE SMITHBURG 7.5'

SURFACE OWNER JAMES A. & WILMA Z. HILL ACREAGE 36.25±
ROYALTY OWNER MABEL V. HILL LEASE ACREAGE 36.25±
PROPOSED WORK: LEASE NO. 476400

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION KEENER/BIG INJUN
ESTIMATED DEPTH 2,250/2,200'

WELL OPERATOR PETROLEUM DEVELOPMENT CORPORATION DESIGNATED AGENT ALAN H. SMITH
ADDRESS 120 GENESIS BOULEVARD ADDRESS 120 GENESIS BOULEVARD
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

COUNTY NAME DODD
PERMIT 4080 F

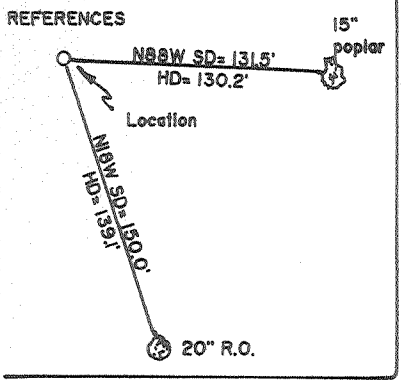
LAT. 39°20'39.9"

LONGITUDE 80°37'30"

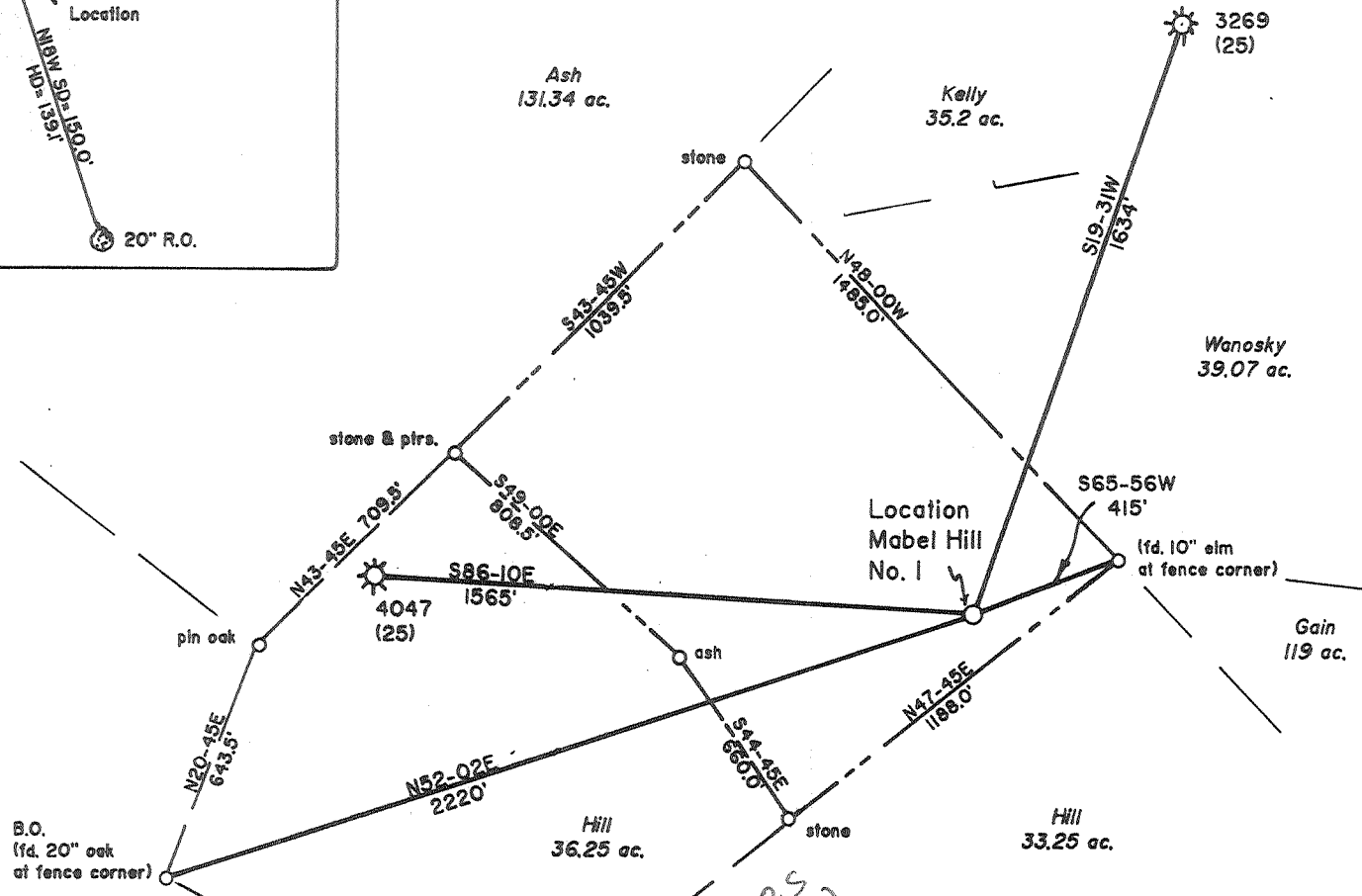
9,175'

LATITUDE 39-22-30 N

LONGITUDE 80-37-30 W



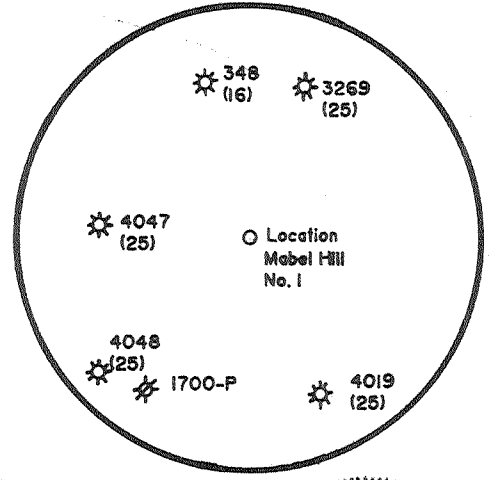
NORTH



7 1/2'

2.135
1.74W

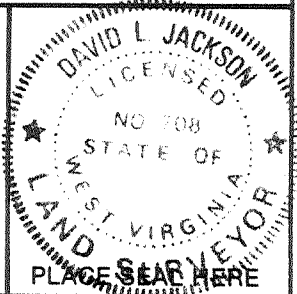
501
3-97



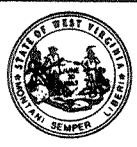
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Road Junction 4,200'
SW of Location: elev. 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 ENERGY.
 (SIGNED) David L. Jackson
 R.P.E. _____ L.L.S. 708



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS



DATE November 29, 1993
 OPERATOR'S WELL NO. Mabel Hill No. 1
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1061 WATERSHED Flint Run
 DISTRICT Grant COUNTY Doddridge
 QUADRANGLE Smithburg 7 1/2' Cornerpoint C
 SURFACE OWNER James A. Hill & Wilma Z. Hill ACREAGE 36.25
 OIL & GAS ROYALTY OWNER Mabel V. Hill LEASE ACREAGE 36.25
 LEASE NO. 476400

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Benson ESTIMATED DEPTH 5000
 WELL OPERATOR Petroleum Development Corp. 0687 DESIGNATED AGENT Eric R. Stearns
 ADDRESS P.O. Box 26, Bridgeport, WV 26330 ADDRESS P.O. Box 26, Bridgeport, WV 26330

COUNTY NAME PERMIT

FORM WW-6

6-6 99

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

Well Operator's Report of Well Work

Farm name: HILL, JAMES A. & WILMA Z. Operator Well No.: MABEL HILL #1

LOCATION: Elevation: 1,061.00 Quadrangle: SMITHBURG

District: GRANT County: DODDRIDGE
Latitude: 11200 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 9175 Feet West of 80 Deg. 37 Min. 30 Sec.

Company: PETROLEUM DEVELOPMENT COR
P. O. BOX 26
BRIDGEPORT, WV 26330-0026

Agent: ERIC R. STEARNS

Inspector: MIKE UNDERWOOD
Permit Issued: 12/15/93
Well work Commenced: 12/30/93
Well work Completed: 01/09/94
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 5260'
Fresh water depths (ft) _____
80; 135; 1390; 2020
Salt water depths (ft) _____
n/a
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 127-130

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	177'	177'	110 sks
8 5/8"	1563'	1563'	388 sks
4 1/2"	5162'	5162'	540 sks

OPEN FLOW DATA

Producing formation Benson/Riley Pay zone depth (ft) 5049-5051
 Gas: Initial open flow 71 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 119 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 1250 psig (surface pressure) after 72 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: Eric R. Stearns
PETROLEUM DEVELOPMENT CORP.

By: Eric R. Stearns
Date: February 8, 1994

Label Hill #1

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N200 PER (MCF)
1st	Benson & Riley	8 (5049' - 5051')	50	525	1000	70
		8 (4820' - 4822')				

W E L L L O G

FORMATION	TOP FEET	BOTTOM FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
KB - GL	0	10	Coal 127' - 130'
sand, shale, RR	10	1750	1/2" stream water @80'
Maxton	1750	1844	1/4" stream water @135'
sand, shale	1844	1937	1/2" stream water @1390'
Big Lime	1937	2076	3/4" stream water @2020'
sand, shale	2076	2084	gas chk @ 2000' 1/10 -1" w/water
Big Injun	2084	2145	
sand, shale	2145	2280	gas chk @ 2219' No Show
Weir	2280	2365	gas chk @ 2345' 2/10 -1" w/water
sand, shale	2365	2488	
Berea	2488	2530	
sand, shale	2530	2677	gas chk @ 2563' 2/10 -1" w/water
Gordon	2677	2745	
sand, shale	2745	3000	gas chk @ 2810' 120/10 -1" w/water
5th	3000	3062	
sand, shale	3062	3356	gas chk @ 3210' 26/10 -1" w/water
Warren	3356	3477	
sand, shale	3477	3495	
Speechley	3495	3860	gas chk @ 3616' 40/10 -1" w/water
sand, shale	3860	3912	
Balltown	3912	4250	
sand, shale	4250	4322	
Bradford	4322	4513	
sand, shale	4513	4795	gas chk @ 4917' 40/10 -1" w/water
Riley	4795	5002	gas chk @ 5074' 24/10 -2" w/water
sand, shale	5002	5048	gas chk @ TD 45/10 -1" w/water
Benson	5048	5082	gas chk @ Collars 12/10 -1" w/water
sand, shale	5082	5260	Driller TD
		5243	Logger TD

18470

DEC 09 93

Permitting
Office of Oil & Gas

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

017-4080

Issued 12/15/93
Expired 12/15/95

- 1) Well Operator: Petroleum Development Corporation 38200 (3) 611
- 2) Operator's Well Number: Mabel Hill #1 3) Elevation: 1061'
- Well type: (a) Oil / or Gas XX /
- (b) If Gas: Production XX / Underground Storage /
Deep / Shallow XX /
- Proposed Target Formation(s): Benson Sands ⁴³⁵
- Proposed Total Depth: 5300' feet
- Approximate fresh water strata depths: 335, 1405, 1485
- 8) Approximate salt water depths: none reported
- 9) Approximate coal seam depths: 245, 380
- 10) Does land contain coal seams tributary to active mine? Yes / No XX
- 11) Proposed Well Work: Drill and stimulate new well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	11 3/4	H-40	42#	150'	150' <u>CS</u>	surface
Fresh Water						
Coal						
Intermediate	8 5/8	H-40	20/23	1600'	1600' <u>CS</u>	surface
Production	4 1/2	J-55	10.5	5300	5300	450 sks
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

00-7265/26

Fee(s) paid Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond C.D. Blanket Agent

(Type)

18470

RECEIVED
NOV 30 1993

- 1) Date: Nov. 30, 1993
- 2) Operator's well number
Mabel Hill #1
- 3) API Well No: 47 - 017 - 4080
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. & Wilma Z. Hill
 Address Rt. 2, Box 125
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 No Declaration
 Address _____
 Name _____
 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
xxx _____ 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)
- _____ 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.

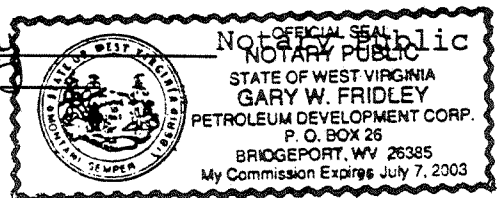
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator PETROLEUM DEVELOPMENT CORPORATION
 By: [Signature]
 Its: _____ Geologist
 Address P O Box 26
Bridgeport, WV 26330
 Telephone 304-842-6256

Subscribed and sworn before me this 3 day of December, 1993

My commission expires July 7, 2003

Gary W. Fridley



WR-35
Rev (5-01)

DATE: 03/20/08
API #: 47-017-04080 F

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: James A. & Wilma Z. Hill Operator Well No.: Mabel Hill 1

LOCATION: Elevation: 1061.00 Quadrangle: Smithburg 7.5'

District: Grant County: Doddridge
Latitude: 11200 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 9175 Feet West of 80 Deg. 37 Min. 30 Sec.

Company: Petroleum Development Corporation

Address: <u>120 Genesis Boulevard</u>
<u>Bridgeport, WV 26330</u>
Agent: <u>Alan H. Smith</u>
Inspector: <u>Mike Underwood</u>
Date Permit Issued: <u>07/03/2007</u>
Date Well Work Commenced: <u>8/24/2007</u>
Date Well Work Completed: <u>9/7/2007</u>
Verbal Plugging:
Date Permission granted on:
Rotary <u>X</u> Cable <u> </u> Rig <u> </u>
Total Depth (feet): <u>5260'</u>
Fresh Water Depth (ft.): <u>80; 135; 1390; 2020</u>
Salt Water Depth (ft.): <u>N/A</u>
Is coal being mined in area (N/Y)? <u>N</u>
Coal Depths (ft.): <u>127-130</u>

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	177'	177'	110 sks
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OPEN FLOW DATA

Producing formation Benson/Riley Pay zone depth (ft) 5049-5051
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 Final open flow 119 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 0 Hours
 Static rock Pressure 1250 psig (surface pressure) after 72 Hours

Second producing formation Gordon Pay zone depth (ft) 2711'-2718'
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow 28 MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests Hours
 Static rock Pressure 30 psig (surface pressure) after 72 Hours

Second producing formation Keener/Big Injun Pay zone depth (ft) 1994'-2052'
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow commingled 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

MAY 08 2008

0000 4080 F

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Signed: _____

By: Alan H. Smith

Date: 03-20-08

Mabel Hill #1

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
1st	Benson	8 (5049' - 5051')				
	& Riley	8 (4820' - 4822')	50	525	1000	70

W E L L L O G

FORMATION	TOP FEET	BOTTOM FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
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sand, shale	5002	5048	gas chk @ TD 45/10 -1" w/water
Benson	5048	5082	gas chk @ Collars 12/10 -1" w/water
sand, shale	5082	5260	Driller TD
		5243	Logger TD