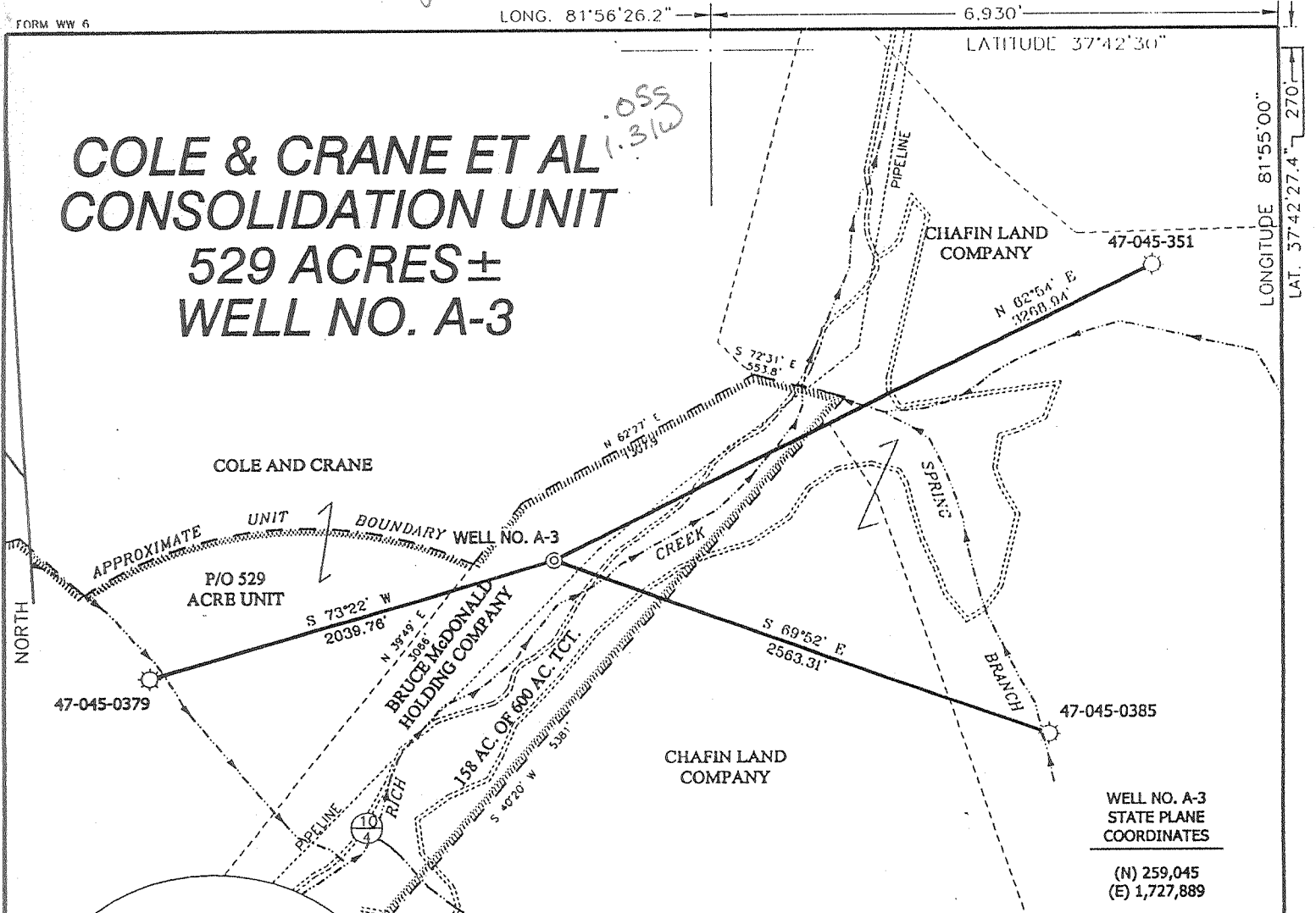


COLE & CRANE ET AL CONSOLIDATION UNIT 529 ACRES± WELL NO. A-3

055
1.31W

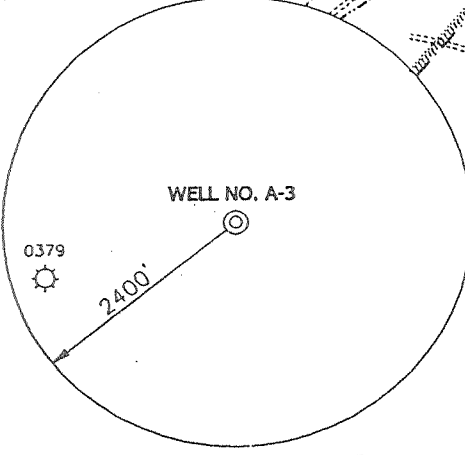
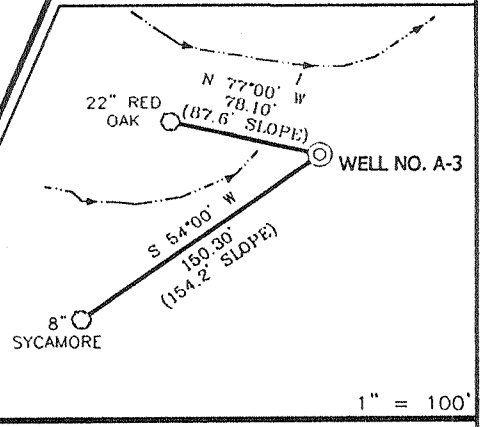


WELL NO. A-3
STATE PLANE
COORDINATES
(N) 259,045
(E) 1,727,889

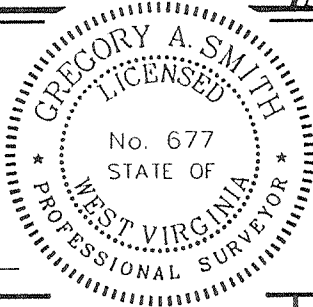
NOTES ON SURVEY

1. TIES TO WELLS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 4/06/99.
3. BOUNDARY SHOWN HEREON TAKEN FROM A MAP RECORDED AS AN EXHIBIT WITH A LEASE/UNIT AGREEMENT DATED MARCH 10, 1953 AS WELL AS DEED BOOK 31 PAGE 454 AND PLATS FOR API NO. 47-045-0379 AND 47-045-0341.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN MARCH, 1999.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES



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.




P.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MAY 7, 19 99
OPERATORS WELL NO. COLE & CRANE CONSOLIDATION #A-3
API WELL NO. 47-045-01338
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 3796PA3 (77-20)
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 1341' SCALE 1" = 800'

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 1276' WATERSHED RICH CREEK
DISTRICT TRIADELPHIA COUNTY LOGAN QUADRANGLE MAN 7.5'
SURFACE OWNER BRUCE McDONALD HOLDING COMPANY ACREAGE 158 OF 600 AC.
ROYALTY OWNER COLE & CRANE et al LEASE ACREAGE 529 AC. UNIT
PROPOSED WORK :
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) Bigame, Near, Berea, Jordan, & Shale TARGET FORMATION DEVONIAN SHALE
ESTIMATED DEPTH 6300' 6046'

WELL OPERATOR BLAZER ENERGY CORPORATION DESIGNATED AGENT RICHARD SMELTZER
ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328

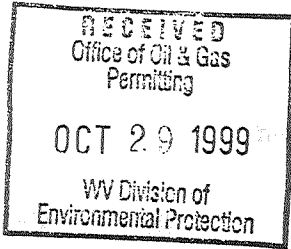
DEEP WELL

6-6 265

WUL 12 1999

COUNTY NAME 106
PERMIT 1338

WR-35



6-Jul-99
API # 47- 045-01338

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

Reviewed _____

Well Operator's Report of Well Work

Farm Name: BRUCE MCDONALD HOLDING

Operator Well No.: COLE & CRANE A-3

LOCATION: Elevation: 1,276.00 Quadrangle: MAN
 District: TRIADELPHIA County: LOGAN
 Latitude: 270 Feet South of 37 DEG 42 MIN 30 SEC
 Longitude: 6930 Feet West of 81 DEG 55 MIN 0 SEC

Company: BLAZER ENERGY CORPORATION
P.O. BOX 2347
CHARLESTON, WV 25328

Agent: Richard Smeltzer

Inspector: OFIE HELMICK
 Permit Issued: 7/7/99
 Well work commenced: 8/10/99
 Well work completed: 10/1/99

Verbal Plugging
 Permission granted on:
 Rotary Rig X Cable Rig _____
 Total Depth 5333 feet
 Fresh water depths (ft) 39'

Salt water depths (ft) 840', 1306'

Is coal being mined in area? _____
 Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"	67'	67'	GRTD
9-5/8"	625'	625'	248 FT ³
7"	2484'	2484'	500 FT ³
4-1/2"	5339'	5339'	442 FT ³

OPEN FLOW DATA

See

Producing formation L. Shale, U. Shale/Gordon, Berea/Weir, Big Lime Pay Zone Depth (ft): Reverse

Gas: Initial open flow 900 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow: 1210 MCF/d Final open flow: _____
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure 70 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: _____
 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: BLAZER ENERGY CORPORATION

By: Barbara A. Hubbard
 Date: 10-26-99

LOG 1338

NOV 8 1999

EASTERN STATES OIL & GAS, INC.
WR-35 COMPLETION REPORT - Attachment
Well Treatment Summary

Well: Cole & Crane A-3

API# 47-045-01338

Date	09/29/99	09/29/99	09/29/99	09/29/99		
Type Frac						
Acid, N ₂ , Foam, Water	N ²	N ²	N ²	Acid/N ²		
Zone Treated	L. Shale	U. Shale/Gordon	Berea/Weir	Big Lime		
# Perfs	17	27	15	24		
From - To:	5063-5294	3678-4737	2829-3328	2545-2698		
BD Pressure @ psi	4313	3229	3239	481		
ATP psi	3561	2466	2302	1200		
Avg. Rate, B=B/M, S= SCF/M	51,600 S	51,476 S	53,226 S	7600 S		
Max. Treat Press psi	4331	3239	4167	2719		
ISIP psi	2800	1800	2050	58		
Frac Gradient	.64	.49	.75	.50		
10 min S-I Pressure	2127	1528	1297	1076 (5 min)		
Material Volume						
Sand-sks						
Water-bbl			1.5	4.5		
SCF N ₂	719,979	796,344	467,632	50,800		
Acid-gal	400 gal 7.8%	850 gal 8.0%	500 gal 15%	2541 gal 15%		
NOTES:						

TOP	BASE	FORMATION	REMARKS
0	25	Fill	
79	286	Sand Shale	Hole damp @ 39'
286	880	White Sand	Hole damp @ 840'
880	885	Shale	
885	965	Sand	
965	1035	Sand & Shale	
1035	1125	W. Sand	
1125	1670	Salt Sand	½" stream @ 1306'
2350	2378	L. Maxton	GT @ 1840'=NS, 2183'=NS
2409	2470	L. Lime	GT @ 2431'=NS
2470	2700	Big Lime	GT @ 2546'=338 mcf, GT @ 2593'=188 mcf
2822	2951	Weir	GT @ 2810'=188 mcf
3283	3311	Sunbury	GT @ 3028'=637 mcf
3311	3339	Berea	
3339	4358	U. Huron	GT @ 3431'=901 mcf
3672		Gordon	
4358	4746	L. Huron	GT @ 4390'=901 mcf, 4545'=901 mcf
4746	4875	Java	
4875	5080	Angola	
5080	5300	Rhinestreet	GT @ 5166'=901 mcf
5300		Onondaga	
5333		DTD	GT @ 5330'=901 mcf

RECEIVED
 Office of Oil & Gas
 Permitting
 OCT 29 1999
 NY Division of
 Environmental Protection