

SEP 11 1991 DEPT. OF EMERGY

RECEIVED

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

SHEPHERD, CARROLL E. Farm name:

Operator Well No.: KEYS/SHEPHERD#1

LOCATION: Elevation: 833.00 Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE Latitude: 5830 Feet South of 39 Des. 20Min. 0 Sec. Longitude 4740 Feet West of 80 Des. 50 Min. O Sec.

Company: EASTERN AMERICAN ENERGY C | Casing | Used in | Left P. O. BOX N 2 GLENVILLE, WV 26351-0000 | Tubing | Drilling | in Well|Cu. Ft.| Asent: DONALD C. SUPCOE Inspector: MIKE UNDERWOOD Permit Issued: 07/10/91 Well work Commenced: __07/15/91____ Well work Completed: 07/30/91 1013' C.T.S. 8-5/8" 1013" Verbal Flussins Permission smanted on: Rotary_X___ Cable ____ Ris Total Derth (feet) ____5190'_ Total Depth (feet) _______ | 5190 _____ | Fresh water depths (ft) _70 _ 255 _ | | | | | 5146' Salt water depths (ft) 1300' Is coal being mined in area (Y/N)?_N | Coal Depths (ft): 13'

OPEN FLOW DATA

(Commingled)

Producins formation Alexander, Benson, Riley ____ Fas zone depth (ft) 5058'-4315 Gas: Initial open flow 377 MCF/d Oil: Initial open flow N/A Bb1/d Final open flow ____NA___Bbl/d Time of open flow between initial and final tests $\underline{}$ Hours Static rock Pressure $\underline{}$ 1200 $\underline{}$ psis (surface pressure) after $\underline{}$ Hours Second producing formation_____ Faw zone depth (ft)_____ Gas: Initial open flow_____Bbl/d Final open flow _____Bbl/d Time of open flow between initial and final tests_____Hours

Static rock Pressure_____psid (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: EASTERN AMERICAN ENERGY CORF.

RONALD L. RECH, Regional Drilling Manager Date: August 19, 1991

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

3-STAGE FOAM FRAC:

- Stage 1: Alexander 18 holes (5057.5'-5028') Fraced w/70 Quality foam, 30 lbs Gel/1000 gals, 50,000 lbs 16/30 sand, 500 gals 15% HCl acid and 792,000 scf of N₂
- Stage 2: Benson 16 holes (4746.5'-4739.5') Fraced w/70 Quality foam, 30 lbs Ge1/1000 gals, 18,500 lbs 16/30 sand, 500 gals 15% HCl acid and 889,800 scf of $\rm N_2$
- Stage 3: Riley 16 holes (4359'-4315') Fraced w/70 Quality foam, 30 lbs Gel/1000 gals, 40,000 lbs 16/30 sand, 500 gals 15% HCl acid and 652,000 scf of $\rm N_2$

WELL LOG

FORMATION COLOR HARD OR SOFT			REMARKS
ביים מממו מינים הווים הווים ביים		1	
ACTIVE ACTIVITY CALL STRUCTURE CALL CALL CALL	TOP FEET	BOTTOM FEET	Including indication of all fre
			and salt water, coal, oil and q
			0.70
K B & GL	0	10	1/2" stream water @ 70'
Fill	10	13	1/2" stream water @ 255'
Coal	13	14	Hole Damp @ 1300'
Sand	14	50	·
Sand, Shale and Red Rock	50	340	may have been a second of the
Sand	340	360	CAG GUEGNG
Shale and Red Rock	360	495 .	GAS CHECKS:
Sand	495	535	
Shale and Red Rock	535	821	1608' - No show
Sand	821	840	1704' - No show
Sand and Shale	840	938	1799' - No show
Sand and Shale	938	980	1923' - No show
Shale and Red Rock	980	1012	2208' - No show
Sand	1012	1060	2522' - No show
Sand and Shale	1060	1230	3122' - No show
	1230	1250	3217° - No show
Sand	1250	1293	3502 - No show
Sand and Shale	1293	1327	3705' - No show
Sand	1	1704	4006' - No show
Sand and Shale	1327 1704	1714	4292 - No show
Little Lime	3		4419' - No show
Sand and Shale	1714	1740	4576' - No show
Big Lime	1740	1822	4702° - No show
Sand and Shale	1822	. 1885	4766' - No show
Big Injun	1885	1917	4956' - No show
SSand and Shale	1917	2068	D.C 6/10 thru 1" w/water
Weir	2068	2185	Dioi , Of to cited t w/ water
Sand and Shale	2185	2262	
Berea	2262	2265	
Sand and Shale	22:65	2805	
Sand and Shale	2805	3147	
Warren	3147	3210	
Sand and Shale	3210	4310	and the state of t
Riley	4310	4376	
Sand and Shale	4376	4738	
Benson	4738	4774	
Sand and Shale	4774	5026	
Alexander	5026	5061	
Sand and Shale	5061	5080	
Sand	508.0	5190 T.D.	5
Janu			as necessary)

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The Community of the Co
FORM WW-2B/UL 09 1991 STATE OF WEST VIRGINIA CYPNES 07/10/92
WELL WORK PERMIT APPLICATION 250
1) Well Operator: Eastern American Energy Corporation 14980 (1) 670
2) Operator's Well Number: Keystone/Shepherd #1 WVDOD002901 3) Elevation: 833
4) Well type: (a) Oil/ or Gas XX/
(b) If Gas: Production XX/ Underground Storage/ Deep/ #39 Shallow XX/
5) Proposed Target Formation(s): Alexander
6) Proposed Total Depth: 5170' feet
7) Approximate fresh water strata depths: 66', 305', 341'
8) Approximate salt water depths: 1265'
Approximate coal seam depths:None
10) Does land contain coal seams tributary to active mine? Yes/ No_XX
ll) Proposed Well Work: Drill and complete new well.
12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)	
Conductor	11-3/4"	F-25	32.0	200'	2002		
Fresh Water	8-5/8**	F-25	20.0	1000'	1000'	C.T.S. 38CSR18-11.3	
Coal						38CSR18-11.2	
<u>Intermediate</u>							
Production	4-1/2**	J-55	10.5	5085	5085	38CSR18-11.1	
Tubing							
Liners							

PACKERS	8	Kind
		Sizes
		Depths set

2022	For Divison of Oil and Gas Use Only	\sim
2 31 9 mard.	Well Work Bermit Reclamation, Fu	IN WPCP
	TI I I TO a While	26 1/1)
Plat 'HI WW	-9 JI WW-2B JET Bond Surly July	_ Agent

(09/	ı WW2-A				
			2)	Operator's well number	
	(87.)			Keystone/Shepherd #1 WVDOD002901	
File	Copy		3)	API Well No: 47 - 017 - 3895	
				State - County - Permit	
		STATE	OF WEST	T VIRGINIA	
		DEPARTMENT OF EN	ERGY, D	IVISION OF OIL AND GAS	
		NOTICE AND APPLIC	CATION E	FOR A WELL WORK PERMIT	

4)	Surface O	wner(s) to be serv	/ed:	5) (a) Coal Operator:	
	(a) Name	Carroll E. Shepherd		Name N/A	
*	Address _	Rt. 1, Box 94		Address	Manage .
		Greenwood, WV 26360	0		
	(b) Name			(b) Coal Owner(s) with Declaration	n
	Address			Name N/A	
				Address	-
	(c) Name				
	Address			Name	
				Address	
		1		4344 (474) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
6)	Inspector	Mike Underwood		(c) Coal Lessee with Declaration	
	Address	Rt. 2, Box 135	tickoukenmuskokenskuskokeisetemen	Name N/A	
	WEIGHA	Salem, WV 26426	CONTROL NO. CONTROL NO.	Address	
	Telephone	(304) - 782-1043			
	_	***************************************			
		TO THE PERSON(S) N	IAMED AF	BOVE TAKE NOTICE THAT:	
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August 2, 1993

_Notary Public